CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 2, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Nov.				
2	Grade reduction	Brooklyn, N. Y.	P. & S.	10-26
2	Water wheels	Arizona	P. & S.	10-13
2	Quay wall	Key West, Fla.	S.	10-19
2	Quay wall	Cuba	S.	10-19
*6	Sewer system	N. Yakima, Wash.	P. & S.	10-26
*7	Steel bridge	Portage, Wis.	P. & S.	10-26
8	Heating	Philadelphia, Pa.	S.	10-26
*8	Irrigation canals	Denver, Colo.	P. & S.	10-12
*8	Bridges	Denver, Colo.	P. & S.	10-12
*10	Elec. light plant	Warsaw, Mo.	S.	11- 2
11	Grading	Portsmouth, N. H.	S.	10-26
*15	Irrigation canals	Glendive, Mont.	P. & S.	9-28
18	Underground cable	Phila., Pa.	S.	10-26
25	Drainage canals	N. Orleans, La.	S.	10-26
Dec.				
*5	Dam	Billings, Mont.	P. & S.	9-14
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Nov. 2. Water wheels, Arizona ..... Oct. 12
Nov. 2. Water wheels, etc., Los Angeles, Cal. .... Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 26.
Nov. 7. Central heating plant, San Jose, Cal. .... Oct. 19
Nov. 10. Power house, etc, Danville, Pa. ..... Nov. 2
Advertised, Eng. News, Nov. 2 and 9.
Nov. 10. Electric light plant, Warsaw, Mo. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Dec. 2. Lighting system, Ft. D. A. Russell, Wyo. .... Nov. 2
Advertised, Eng. News, Nov. 2 to 23.
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug. 17to Sept. 14.

BRIDGES.

Nov. 2. Bridges, Brooklyn, N. Y. ..... Oct. 26
Nov. 3. Bridges, Port Huron, Mich. ..... Oct. 26
Nov. 3. Bridge, Ukiah, Cal. ..... Oct. 26
Nov. 4. Bridge, Hoosick Falls, N. Y. ..... Oct. 26
Advertised, Eng. News, Oct. 26.
Nov. 6. Bridges, Tipton, Ind. ..... Oct. 26
Nov. 4. Bridge abutments, Barberton, O. ..... Oct. 19
Nov. 4. Bridge, St. Charles, Mo. ..... Nov. 2
Nov. 6. Bridges, Watonga, Okla. ..... Nov. 2
Nov. 6. Bridge, Valparaiso, Ind. ..... Nov. 2
Nov. 6. Bridge, Greenwood, Miss. ..... Nov. 2
Nov. 6. Wooden bridge, Redwood City, Cal. ..... Nov. 2
Nov. 6. Bridge, Jamestown, N. Dak. ..... Oct. 19
Nov. 6. Steel bridge, Huntsville, Ala. ..... Oct. 12
Nov. 6. Bridge, Memphis, Tenn. ..... Oct. 12
Nov. 6. Bridge, Monte Vista, Colo. ..... Oct. 26
Nov. 6. Bridge, Rosedale, Miss. ..... Oct. 26
Nov. 6. Bridge, San Bernardino, Cal. ..... Oct. 26
Nov. 7. Bridge, Fargo, N. Dak. ..... Oct. 26
Nov. 7. Bridge, Portage, Wis. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 7. Bridge, iron, Palmyra, Mo. ..... Oct. 19
Nov. 7. Bridges, Bloomfield, Ind. ..... Nov. 2
Nov. 7. Bridges, wooden, Madera, Cal. ..... Nov. 2
Nov. 8. Bridge, Ontario, Ore. ..... Nov. 2
Nov. 8. Bridge, South Bend, Ind. ..... Oct. 19
Nov. 8. Bridge, steel, Vale, Ore. ..... Oct. 19
Nov. 8. Steel arches, Auburn, Ind. ..... Oct. 19
Nov. 8. Bridges, Denver, Colo. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Nov. 8. Bridge, steel, Bellingham, Wash. ..... Oct. 26
Nov. 8. Bridges and culverts, So. Bend, Ind. .... Oct. 26
Nov. 9. Bridge, steel, Jefferson City, Mo. ..... Oct. 26
Nov. 9. Bridges, Ventura, Cal. ..... Oct. 26
Nov. 11. Bridge, Lancaster, O. ..... Oct. 26
Nov. 20. Bridge, Memphis, Tenn. ..... Oct. 26
Nov. 20. Bridge, Doylestown, Pa. ..... Nov. 2
Nov. 24. Bridge, Minneapolis, Minn. ..... Nov. 2
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla. ..... Nov. 2
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Nov. 2. Bakery (Mfg. Plts.), Ft. Robinson, Neb. . Oct. 19
Nov. 3. Court-house, Deadwood, S. Dak. ..... Oct. 26
Nov. 6. Light fixtures, Ft. Des Moines, Ia. ..... Oct. 19
Nov. 6. School, Hasbrouck Heights, N. J. ..... Nov. 2
Nov. 7. Residence, St. Louis, Mo. ..... Nov. 2
Nov. 7. Steam heating, Guthrie, Okla. ..... Oct. 19
Nov. 8. Electric light fixtures, Washington, D. C. Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 8. Heating, Philadelphia, Pa. ..... Oct. 26
Nov. 8. Residence, St. Louis, Mo. ..... Nov. 2
Nov. 9. Court-house, Marion, Kan. ..... Oct. 12
Nov. 10. Building, New York, N. Y. ..... Nov. 2
Nov. 11. Building, St. Louis, Mo. ..... Nov. 2
Nov. 11. Dormitory, Convent Station, N. J. ..... Oct. 19
Nov. 13. Heating, lighting, etc., Elmira, N. Y. .... Nov. 2
Advertised, Eng. News, Nov. 2 and 9.
Nov. 13. Schools, New York, N. Y. ..... Nov. 2
Nov. 14. Post-office, Colorado Springs, Colo. ..... Sept. 21
Nov. 14. Drill hall, Ft. Des Moines, Ia. ..... Oct. 26
Nov. 15. Blacksmith shop, Tompkinsville, N. Y. . Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 15. Plumbing system, Burlington, Ia. ..... Oct. 19
Nov. 15. Jail, Homer, Ga. ..... Nov. 2
Nov. 15. Hotel, Florala, Ala. ..... Nov. 2
Nov. 20. School, Danbury, Ia. ..... Oct. 26
Nov. 21. Buildings, Pipestone, Minn. ..... Nov. 2
Nov. 22. Heating, Evanston, Wyo. ..... Oct. 26
Nov. 27. Quarantine station, Mullet Key, Fla. .... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Hospital, etc., Pensacola, Fla. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 28. Cells, Kansas City, Mo. ..... Oct. 26
Nov. 23. Hospital, New London, Conn. ..... Nov. 2
Nov. 29. Buildings, etc., Grand Junction, Colo. ..... Nov. 2
Nov. 29. Building, West Point, N. Y. ..... Oct. 19
Advertised, Eng. News, Oct. 19, 26 and Nov. 16 and 23.
Dec. 2. Buildings, Philadelphia, Pa. ..... Nov. 2
Dec. 12. Capitol building, Bismarck, N. Dak. ..... Oct. 5

WATER SUPPLY AND IRRIGATION.

Nov. 6. Conduit, Sec. 1, Toledo, O. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 6. Conduit, Sec. 2, Toledo, O. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 6. Water mains, Valley City, N. Dak. ..... Oct. 19
Nov. 6. Steel caisson, Winnipeg, Man. ..... Oct. 26
Nov. 7. Boilers and pumps, St. Louis, Mo. ..... Oct. 19
Nov. 7. Tank and trestle, Fort Stevens, Ore. .... Oct. 19
Nov. 7. Water main extension, Decatur, Ind. ..... Nov. 2
Nov. 8. Filter beds, laying mains, N. York, N. Y. Nov. 2
Nov. 8. Boilers, New York, N. Y. ..... Oct. 19
Nov. 8. Irrigation canal, Denver, Colo. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Nov. 9. Water mains, Fort Walla Walla, Wash. .. Nov. 2
Nov. 10. Water system, Norfolk, Va. ..... Nov. 2
Nov. 10. Steel pipe, etc., Cincinnati, O. ..... Oct. 19
Nov. 11. Water-works, East Moline, Ill. ..... Oct. 19
Advertised, Eng. News, Oct. 19 to Nov. 9.
Nov. 11. Main extensions, etc., Fort Williams, Me. . Nov. 2
Nov. 15. Water-works, etc., Milledgeville, Ga. ..... Nov. 2
Nov. 15. Water-works, etc., Independence, Kan. .... Oct. 26
Nov. 15. Irrigation canals, Glendive, Mont. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 16. Water-works, Lebanon, Pa. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 22. Boilers, pumps, etc., Phoenix, Ariz. ..... Nov. 2
Nov. 22. Water mains, New York, N. Y. ..... Nov. 2
Nov. 22. Main extensions, etc., Vancouver Barracks, Wash. ..... Nov. 2
Dec. 1. Water meters, Chicago, Ill. ..... Oct. 26
Dec. 5. Yellowstone dam, Billings, Mont. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Dec. 15. Irrigation canal, etc., Billings, Mont. .... Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Dec. 29. Irrigation canal, San Francisco, Cal. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.

SEWERAGE.

Nov. 2. Purification works, Columbus, O. ..... Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Nov. 4. Pipe sewer, Grosse Pointe Farms, Mich. Oct. 12
Nov. 6. Concrete sewer, Plainfield, N. J ..... Oct. 12
Advertised, Eng. News, Oct. 12.
Nov. 6. Sewers, Napoleon, O. ..... Oct. 12
Nov. 6. Sewers, Glendale, O. ..... Oct. 12
Nov. 6. Sewer system, North Yakima, Wash. .... Oct. 19
Advertised, Eng. News, Oct. 26.
Nov. 6. Pipe sewer, Glendale, O. ..... Oct. 26
Nov. 6. Pipe sewer, Chester, Pa. ..... Nov. 2
Nov. 7. Sewers, Chattanooga, Tenn. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 8. Sewers, St Bernard, O. ..... Nov. 2
Nov. 9. Brick conduit, Salt Lake City, Utah ..... Nov. 2
Nov. 9. Pipe sewers, Boise City, Idaho ..... Oct. 26
Advertised, Eng. News, Oct. 26 and No. 2.
Nov. 10. Sewers, Aberdeen, S. Dak. ..... Oct. 26
Nov. 16. Pipe sewer, Des Moines, Ia. ..... Nov. 2
Nov. 30. Sewer system, Baton Rouge, La. ..... Oct. 26
Dec. 11. Sewerage, Sheldon, Ia. ..... Oct. 12
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Nov. 3. Cement walks, Pipestone, Minn. ..... Oct. 26
Nov. 3. Paving, Buffalo, N. Y. ..... Nov. 2
Nov. 4. Concrete walks, etc., Seattle, Wash. ..... Nov. 2
Nov. 4. Macadamizing, Norwood, O. ..... Oct. 26
Nov. 6. Paving, Grensburg, Pa. ..... Oct. 26
Nov. 6. Gravel roads, Salem, Ind. ..... Oct. 26
Nov. 6. Paving, Perth Amboy, N. J. ..... Oct. 26
Nov. 6. Paving, Cincinnati, O. ..... Oct. 19
Nov. 6. Roads, Crownpoint, Ind. ..... Oct. 19
Nov. 6. Paving vitrified brk., Moundsville, W. Va. Oct. 19
Nov. 6. Roads, English, Ind. ..... Nov. 2
Nov. 6. Road, gravel, Corydon, Ind. ..... Nov. 2
Nov. 6. Paving, Wichita, Kan. ..... Nov. 2
Nov. 6. Walks, Hannibal, Mo. ..... Oct. 26
Nov. 6. Paving, Kirksville, Mo. ..... Nov. 2
Nov. 7. Concrete walks, Mooresville, Ind. ..... Nov. 2
Nov. 7. Gravel roads, Bloomfield, Ind. ..... Oct. 26
Nov. 7. Paving, Bisbee, Ariz. ..... Oct. 26
Nov. 8. Walks, Passaic, N. J. ..... Nov. 2
Nov. 8. Walks, Verona, N. J. ..... Nov. 2
Nov. 10. Road, Cincinnati, O. ..... Oct. 19
Nov. 11. Paving, Cleveland, O. ..... Nov. 2
Nov. 20. Graveling, Webb City, Mo. ..... Nov. 2
Nov. 25. Walks and curbs, New Orleans, La. ..... Oct. 26
Nov. 30. Paving, Baton Rouge, La. ..... Oct. 26

MISCELLANEOUS CONTRACTS.

Nov. 2. Grade reduction, Bklyn, N. Y. (Elec Rys). Oct. 26
Nov. 2. Wreck removal, Norfolk, Va. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 3. Canal, bridges, etc., Port Huron, Mich. Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 2.
Nov. 3. Ammunition hoists, Washington, D. C. .... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 3. Breakwater, Port Burwell, Ont. ..... Oct. 19
Nov. 3. Piles, sand, New York, N. Y. ..... Oct. 26
Nov. 3. Chimney, Buffalo, N. Y. ..... Oct. 26
Nov. 4. Tile drain, Raymond, Ill. ..... Oct. 12
Nov. 6. Garbage disposal, New York, N. Y. ..... Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 9.
Nov. 6. Dam, Phoenix, Ariz. ..... Oct. 19
Nov. 6. Fire hose, Sioux Falls, S. Dak. ..... Oct. 26
Nov. 6. Ditch, Onawa, Ia. ..... Oct. 26
Nov. 6. Retaining wall, Bradford, Pa. ..... Nov. 2
Nov. 7. Lime, roofing, etc., Cuba ..... Oct. 12
Nov. 7. Buoys, Tompkinsville, N. Y. ..... Oct. 26
Nov. 7. Tile drain, Clinton, Ill. ..... Oct. 26
Nov. 7. Pipe, conduit, motor, etc., Wash., D. C. .. Oct 26
Nov. 7. Boiler, Fort Brown, Tex. ..... Oct. 26
Nov. 9. Wharf, etc., Havana, Cuba ..... July 27
Nov. 11. Grading, Portsmouth, N. H. ..... Oct. 26
Nov. 11. Machinery, etc., Washington, D. C. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 11. Tile drain, Waggoner, Ill. ..... Nov. 2
Nov. 13. Fire alarm system, Sycamore, Ill. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 14. Machinery, Washington, D. C. ..... Nov. 2
Nov. 14. Fence, Fort Douglas, Utah ..... Nov. 2
Nov. 14. Boilers, New York, N. Y. ..... Nov. 2
Nov. 14. Pipe gallery, New York, N. Y. ..... Nov. 2
Nov. 15. Tower, Norristown, Pa. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Nov. 16. Shovels, axes, etc., Washington, D. C. . Oct. 26
Nov. 17. Ferry house, New York, N. Y. ..... Nov. 2
Nov. 18. Underground cable, Philadelphia, Pa. .... Oct. 26
Nov. 20. Concrete wall, Chattanooga, Tenn. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 16.
Nov. 21. Drills, rails, etc., Washington, D. C. .... Nov. 2
Nov. 21. Lumber, Washington, D. C. ..... Nov. 2
Nov. 25. Drainage canals, etc., New Orleans, La. . Oct. 26
Nov. 27. Dredging, etc., New Orleans, La. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to 30.
Nov. 28. Drills, Pipe, etc., Washington, D. C. .... Oct. 26
Nov. 28. Fire alarm, Mare Island, Cal. ..... Oct. 19
Dec. 2. Concrete quay wall, Cuba ..... Oct. 19
Dec. 2. Concrete wall, Key West, Fla. ..... Oct. 19
Dec. 6. Concrete dock, Chicago, Ill. ..... Nov. 2
Dec. 15. Telephone system, Billings, Mont. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 14.
Dec. 15. Railways, Philippines ..... Sept. 21
Dec. 27. Lock, dams, wall, Chicago, Ill. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railroad, Chile ..... Aug. 24
Jan. 9. Wharf work, New Zealand ..... Nov. 2

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC CITY & SHORE.—This company has been incorporated in New Jersey by George C. Duval, E. H. B. Martin and J. H. Switzer, of Camden, N. J.; and J. F. Cotter, of Philadelphia.

ATLANTIC COAST LINE.—A contract has been awarded to the SOUTH BALTIMORE STEEL CAR & FOUNDRY Co., Baltimore, Md., for the construction of 1,500 freight cars for the Atlantic Coast Line Railroad Co. This contract represents about $1,250,000.

BEAUMONT, SOUR LAKE & WESTERN.—Contract has been given to KENEFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., of Kansas City, Mo., for building an extension from Sour Lake, Tex., to Humble. The Construction Co. will open offices at Beaumont, Tex., which will be in charge of R. M. Quigley.

BURLINGTON & MISSOURI RIVER (Chicago, Burlington & Quincy).—Company has filed amended articles of incorporation in Nebraska to permit construction of an extension from Guernsey, Wyo., to Salt Lake City, Utah, 800 miles. G. W. Holdrege is Gen. Mgr., at Omaha, Neb. I. S. P. Weeks is Engr., at Lincoln, Neb.

BULLFROG & GOLDFIELD.—It is reported that a company, under this name, has been incorporated in Nevada to build a railroad from Goldfield to Bullfrog, 70 miles, which will be an extension of the Tonopah Railroad. Preliminary surveys have been made. John W. Brock is Pres., Charles R. Miller, vice-Pres. and Treas.; Frank A. Keith, assistant Treas.; Clyde A. Heller, Secy., and R. W. Welsh, Ch. Engr.

BIRMINGHAM & ATLANTIC.—It is announced that this company will revise its railway and build a spur track at Talladega, Ala. The railway is 43 miles long and extends from Talladega to Coal City, Ala. John Carlsen is Secy., 25 Broad St., New York.

COLORADO SOUTHERN, NEW ORLEANS & PACIFIC.—The KENEFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., of Kansas City, Mo., is reported to have contract for construction of this railway, from De Quincy, La., to Baton Rouge, about 250 miles. B. B. Gordon is Ch. Engr., at Baton Rouge, La.

COLORADO, OKLAHOMA CENTRAL & NEW ORLEANS.—Incorporated in Oklahoma to build a railway from the proposed terminus of the Guthrie, Fairview & Western Ry., near Fairview, Okla., via Selling, Cestos, Mutual, Woodward, Beaver and Guymon, to Trinidad, Colo. The incorporators are the projectors of the Guthrie, Fairview & Western, including W. S. McCaull, of Kansas City, Mo. Capital, $20,000,000.

CUMBERLAND RIVER & NASHVILLE.—A mortgage for $2,500,000 has been executed by this company. Preliminary work and surveys have been begun. The railway will extend from Corbin, Ky., through Laurel, Whitney, Pulaski and Clinton Counties, into Tennessee, about 100 miles. Headquarters are at Burnside, Ky.

CENTRAL RAILROAD.—Incorporated in Oregon, by the Oregon Development Co., of Union, Ore., of which T. W. Davidson is Pres., R. A. Marr is vice-Pres. and M. C. Richards is Treas. The new company is organized to finance and construct and operate the belt line of railway around Grand Ronde Valley, connecting Union, Cove, Summerville, Hot Lake and La Grande.

CENTRAL ILLINOIS.—A meeting of the stockholders has been called for Dec. 30 at Chicago for the purpose of changing the name of the organization and increasing the capital stock. The new name proposed is that of the Chicago & Illinois Midland Railway Co. The capital stock is to be increased from $50,000 to $2,000,000, the purpose being to construct and operate a line of railway from Auburn, Ill., where it connects with the Chicago & Alton, to Taylorville. The road eventually will be extended eastward to Paris via Assumption and westward from Auburn to Roodhouse, in Green County. Grading for the extension has already commenced.

CHICAGO, BURLINGTON & QUINCY.—Contract has been awarded to GUTHRIE & CO., of St. Paul, Minn., for building the extension from Frannie, Wyo., to Wellington and Worland, 85 miles. Noted on Oct. 12.

CHICAGO & NORTHWESTERN.—A statement has been issued in regard to the new lines and extensions of this system: (1) The Wyoming & Western line is an extension west from Casper, Wyo., to Lander, Wyo., 148 miles; it will develop the Shoshone Indian reservation, and will be completed before that reservation is opened for settlement next June. (2) The Pierre, Rapid City & Northwestern line is an extension from Pierre, S. Dak., to Rapid City, S. Dak., 165 miles, connecting at the latter place with the company's Black Hills line. (Noted on Oct. 19.) There will be a bridge over the Missouri River between Pierre and Fort Pierre. C. T. Dike, at Pierre, is Engr.-in-Charge. (3) The Manitowoc, Green Bay & Northwestern line will extend from Manitowoc, Wis., to Green Bay, 36 miles; from Duck Creek to Gillett, Wis., 30 miles; and from Pulaski to Eland Junction, Wis., 48 miles; a total of 114 miles. (4) A branch from Laona to Saunders, Wis., 30 miles. (5) A branch from Mercer, Wis., to the Presque Isle district, 21 miles. (6) The Milwaukee & State Line Ry. is a double track line from Lake Bluff, Ill., to St. Francis, Wis., 51 miles; this is a part of the new double track railway for freight traffic from Chicago to Milwaukee, to relieve the congestion on the present double track line. E. C. Carter, Chicago, is Ch. Engr.

CROOKED CREEK R. R.—Two extensions will be built; one, southwest from Lehigh, Ia., to Gowrie, 15 miles, connecting with the Chicago & Northwestern, Chicago, Rock Island & Pacific, Newton & Northwestern and Minneapolis & St. Louis railroads. The other will be from Brushy, Ia., to Fort Dodge, 12 miles. The railway is now 18 miles long. F. E. Willson, Webster City, Ia., is Gen. Mgr.

DENVER, YELLOWSTONE & PACIFIC.—The title of the Colorado, Wyoming & Idaho Ry. Co. has been changed to the above one. This road was noted on Oct. 12. Thomas J. Milner, 957 Broadway, Denver, Colo., is Engr. Surveys are in progress.

DUE WEST R. R.—R. S. Galloway, Chn. of Committee, Due West, S. C., states that T. C. Anderson and C. E. Dwight are Engrs.-in-Charge of surveys now being run for this railway. Noted on Oct. 19. The line will be 4¼ miles long.

FALLS CITY, SYCAMORE SPRINGS & SOUTHWESTERN.—Incorporated in Kansas to build a railroad from Sycamore Springs to Topeka and from Sycamore Springs west to the state line. Capital stock, $100,000. Incorporators: Samuel Kimmel, E. S. Towle, W. H. Crook, W. E. Dorrington, Albert Maust, J. H. Miles and Edwin A. Towle, all of Falls City, Neb.; E. V. Kauffman and H. Redding, of Sabetha; W. A. S. Bird, of Topeka; T. J. Slusher and Roy Hesseltine, of Sabetha; George J. Boone, of Saint Joseph, Mo.; George L. Campen, of Lincoln, Neb.

GRAND TRUNK PACIFIC.—A trip of inspection over the located line from Portage la Prairie, Man., to Edmonton, Alta., has recently been made by F. W. Morse, Gen. Mgr., and Mr. Kelliher, Ch. Engr. A similar trip, but extending beyond Edmonton, has been made by Collingwood Schrieber, Ch. Engr. of the Transcontinental Railway Commission, in order to report to the Minister of Railways upon the route adopted and its relation to other proposed and existing railways.

GAINESVILLE MIDLAND.—We are informed by Edward L. Douglass, Gen. Mgr., at Gainesville, Ga., that bids will be received probably between the present date and Nov. 15 for construction of an extension from Jefferson to Athens, Ga. All arrangements are completed.

HOUSTON, SABINE & RED RIVER.—The contract for grading this railway from Brookridge to the San Jacinto River was awarded to W. D. GRISWOLD & CO., of Houston, Tex. Noted fully on Oct. 26.

ILLINOIS CENTRAL.—It is reported that bids are asked for construction of the extension from Corinth, Miss., to Haleysville, Ala. J. T. Harahan, Chicago, is Second vice-Pres.

JACKSON & SOUTH EASTERN.—We are advised that surveys are completed and capital secured for building this railway from Jackson, Tenn., to Corinth, Miss., and Birmingham, Ala., 250 miles. Bids will be received at once. C. G. Bond is Pres. and A. M. Allen vice-Pres., at Jackson, Tenn. Engineer is not yet appointed.

KANAWHA & WEST VIRGINIA.—A special meeting of stockholders is to be held at Scranton, Pa., on Nov. 14, to vote on the proposed increase of the capital stock from $2,500,000 to $5,000,000. The company is now constructing its lines. Noted on Oct. 12.

LAKE SHORE & MICHIGAN SOUTHERN.—The Ohio & Gypsum Construction Co. will build a railroad from Castalia, O., on the Lake Erie & Western, to Venice, on the Lake Shore & Michigan Southern, a distance of six miles, passing through 70 acres of gypsum deposits. E. J. Marshall, H. W. Fraser, G. C. Boyce, H. J. Young and M. M. Crary, Jr., all of Toledo, O., are the incorporators. Capital, $10,000.

MISSOURI, OKLAHOMA & GULF.—Company, it is reported, has let a contract to J. W. HOFFMAN & CO., of Kansas City, Mo., for the extension northward from Wagoner, Ind. T., to Afton, 70 miles. The line is now in operation from Wagoner southward to Henryetta and Dustin, Ind. T., 74 miles. The company proposes to build a branch from Henryetta to Oklahoma City and an extension from Dustin to Guertie, where three other branches will diverge—one to Rhome, Tex.; another to Denison, Tex., and the third to Rodessa, La. It is planned to build to Pittsburg, Kan., and Joplin, Mo.

MISSOURI PACIFIC.—We are advised by E. F. Mitchell, Engr. of Construction, St. Louis, Mo., that "a survey has been made for a line from Henson, a point on the Belmont branch of the St. Louis, Iron Mountain & Southern Railway, extending in a southerly direction to a point on the Mississippi River at Hickman, Ky., but the construction of the line has not been authorized and we are, therefore, unable to furnish any information as to when the contract will be let."

MILWAUKEE, GALESBURG & SOUTHERN.—We are informed that surveys are being made and right-of-way acquired for this line from Milwaukee, Wis., to Louisiana, Mo., where it will connect with the Chicago & Alton Ry., giving a direct route from Milwaukee to St. Louis and Kansas City. Robert A. Young, Jr., of Galesburg, Ill., is interested.

OGLESBY & GRANVILLE.—The GENTRY CONSTRUCTION CO., Railway Exchange Bldg., Chicago, has been awarded the contract for building this road from Oglesby to Granville, Ill., 12 miles. Grading has been commenced. S. T. Crapo is Pres., Tribune Bldg., Chicago; D. C. Dunlap is Ch. Engr., Granville, Ill.

OHIO RIVER & GULF.—We are informed that this line will be 35 miles long. It will extend from Mayland, Tenn., to Jamestown, Tenn. Location survey is under way and nearly completed. Capital is secured. Bids will be received probably this month. R. J. Moscript is Ch. Engr., and W. Cooper, Pres., at Mayland, Tenn.

OKLAHOMA & NORTHWESTERN.—E. E. Reiss, Pres., 171 La Salle St., Chicago, has stated that this road will be 75 miles long, extending from Doxey, Okla., northwest. The line has been surveyed from Doxey to Berlin, 12 miles. Grading is in progress between those points. The company is doing its own construction work and all contracts will be let by the president at Chicago. H. Jarvis & Co., 1749 Railway Exchange Bldg., Chicago, are the Engineers.

OKLAHOMA CENTRAL.—We are advised that surveys are completed and capital secured. The CANADIAN VALLEY CONSTRUCTION CO., of Lehigh, Ind. T., has general contract. The railway will be 140 miles long, from Lehigh to Chickasha, via Purcell, Ind. T. Dorset Carter is Pres. and R. L. McWillie, Ch. Engr., at Lehigh.

SOUTH & WESTERN.—We are informed that 150 miles have been located and surveyed. The line will be 300 miles long, extending from Elkhorn, Ky., to St. Paul, Va., Kingsport, Tenn.; Marion, N. C., and Spartanburg, S. C. The remaining 150 miles are under location. Contract for 12 miles has been awarded to S. WALTON, Falls Mills, Va. Company has its forces at work grading. Other contracts will be let when location surveys are completed; this probably will be within two months. M. J. Caples is Ch. Engr. and Gen. Mgr.; George L. Carter, Pres., both at Bristol, Tenn.

SOUTH BOUND.—Towns along the proposed route in Davidson County and Stanly County, N. C., have voted bonds and right-of-way for this railway. Col. F. H. Fries, of Winston-Salem, N. C., is interested.

SCOTT VALLEY.—Company has been incorporated in California by Charles E. Loss, Henry T. Wells and John A. Manly, the directors. The capital stock of the company is $1,500,000. The line will run through Scott Valley in northern California, through a timber and dairy country to the coast, running in one direction from Yreka to Montague and in another to the coast, tapping Siskiyou, Del Norte and Humboldt Counties. It will be 150 miles long.

TIDEWATER RY.—It is reported that bids will be received at once for constructing this line westward from present terminal at Rock, W. Va. H. Fernstrom is Ch. Engr., at Norfolk, Va.

UNION PACIFIC.—Contract for 115 miles of new railway, to be built northwesterly from Hershey to Northport, Neb., has been awarded to W. C. BRADBURY, of Denver, Colo.

WICHITA VALLEY.—J. P. NELSON, of San Antonio, Tex., has been awarded the contract for building the extension from Seymour to Stamford, Tex., 60 miles. Work is to begin at once, and the extension is to be completed by June 1, 1906.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

FITCHBURG, MASS.—We are informed that options on right-of-way for the Fitchburg & Princeton Street Ry. line have been secured. The line will extend from Fitchburg to Princeton, six miles. Company recently was incorporated with $60,000 capital.

PORTAGE, PA.—We are advised that the Portage Electric Co. has completed surveys for a line to Puritan and Martindale. Company will also build from Gallitzin to Wilmore. H. A. Tompkins is Pres., Clearfield, Pa.; J. H. McDonald, Secy., Portage, Pa.; E. W. Hess, Engr., Clearfield, Pa.

NORFOLK, VA.—H. L. Smith, E. C. Hathaway, Gen. Mgr. Norfolk Ry. & Light Co.; Charles H. Consolvo, Mgr. Pine Beach Hotel; J. W. Perry and John N. Vaughan, of Norfolk, are interested in plan to build an electric railway from Ocean View to Pine Beach.

MORGANTOWN, W. VA.—The proposed Morgantown & Dunkard Valley Ry. will be 42 miles long. It will extend to Warrington. C. R. Jones is Elec. Engr.

ASHEVILLE, N. C.—Reginald Howland, Supt., Asheville & Craggy Mountain Railway, states that it is proposed to build a counterweight railway about a half mile long from Overlook Park to the top of Sunset mountain. R. E. Tingley is Ch. Engr., at 29 Broadway, New York City.

TAMPA, FLA.—We are advised by G. W. Wells, Gen. Mgr. Tampa Electric Co., that this company has been building between six and seven miles of additional track, in and around Tampa. The work is now partly completed, and is being done by company's forces. All materials are ordered. Stone & Webster, Boston, Mass., are Engrs. Company operates 30 miles of railway.

GULFPORT, MISS.—The Mississippi Land Development Co., F. A. Augur, Pres., will build an electric railroad here.

GALLIPOLIS, O.—We are informed by John C. Shepard, Pres., Indian Guyan Coal Ry. Co., at Gallipolis, that one survey is made and right-of-way partly secured for this railway from Gallipolis to Rockwood, 40 miles. Capital is being secured. No engineer is yet appointed. The maximum curvature is 10°. Estimated cost is about $5,700 a mile. The line will penetrate a coal mine section. Company owns coalfields and may operate mines in connection with railway, in which event central power would be built for mines at estimated cost of $13,000. Three bridges will be built at cost of $20,000 and six trestles at cost of $16,500. J. W. Jones, Gallipolis, O., C. E., has submitted report of location survey to company.

BELLAIRE, O.—We are advised that the Osborn Engineering Co., of Cleveland, has made preliminary surveys for the Belmont Electric Ry. Co.'s electric line from Bellaire to St. Clairsville, 15 miles.

SANDUSKY, O.—The Westinghouse Electric & Manufacturing Co. will prepare plans and specifications for the electric equipment for the Sandusky, Fremont & Tiffin Traction Co.'s line, it is reported. Among those interested in this project are L. C. Fitch, of Chicago; W. A. Story, of Chillicothe; H. M. Daugherty, of Columbus; J. E. Todd, E. R. Chapman and J. H. Ross, of Fremont.

SPRINGFIELD, O.—We are informed that right-of-way is nearly all secured, as well as funds for building the Springfield, Charleston, Washington & Chillicothe Traction line. It is to be 75 miles long, extending from Springfield to Charleston, Washington Court-House and Chillicothe. Contracts will be let early next spring. J. S. Harshman, Springfield, is Gen. Mgr.

CANAL DOVER, O.—W[illegible] A. Ginn, of Columbus, Ch. Engr. of th[illegible]ville, Coshocton & Northern Electr[illegible]lway, states that all right-of-way [illegible] secured through Avondale, Chili, [illegible] and Hagersville. It is now the int[illegible] to build into Canal Dover instead of [illegible]ville.

CLEVELAND, O.—Cont[illegible] construction of a municipal electr[illegible]way to Warrensville has been award[illegible] W. NORTON, of Cleveland, at $1[illegible] Noted on Oct. 5.

INDIANAPOLIS, IND.—W[illegible] advised by Fred. Bidgood, Ch. Engr., [illegible] Belt Ry., at Noblesville, Ind., that c[illegible] construction of the road has been [illegible], but that nothing has definitely b[illegible] toward building. Several routes [illegible] and south through Greenfield as far a[illegible]ville have been projected, but none h[illegible] selected. This railway will circle Ind[illegible] with an approximate radius of 25 m[illegible] It will be about 150 miles in length, [illegible] Greenfield, Noblesville, Lebanon, [illegible], Martinsville, Franklin, Shelby[illegible] Greenfield. Charles A. Barnes, [illegible] Greenfield, is Pres. Company w[illegible]ered recently with $10,000 capital.

COLUMBUS, IND.—We are [illegible] that surveys are being made for a [illegible] extension from Columbus to Seym[illegible], by the Indianapolis, Columbus & So[illegible] Traction Co. Capital is secured. Com[illegible] itself may build the line. W. G. Irwin, [illegible]umbus, is Gen. Mgr.

MARION, IND.—A contrac[illegible] been let to the AMERICAN ENGINE[illegible] CO., of Indianapolis, to finance and [illegible] the Indianapolis, Huntington, Col[illegible] City & Northwestern Traction Co.'s [illegible] from Huntington to Marion, and then[illegible] to Indianapolis. The main office will b[illegible] Terminal Bldg., Indianapolis. N. E. Wei[illegible] Jr., is Gen. Mgr.

VAN BUREN, IND.—We are informed that the Marion, Bluffton & Eastern Traction Co. has begun construction on its line from Marion to Bluffton. Noted fully on Oct. 19. The Riggs & Sherman Co., of Toledo, O., has been appointed to take charge of the engineering work and has opened offices at Van Buren, Ind. Engineering company desires to receive catalogues and prices for various materials which will be required.

CHICAGO, ILL.—John Farson, of Farson, Leach & Co., Chicago bankers, is reported as stating that $5,000,000 will be spent in the immediate future in extending interurban lines in northern Illinois and southern Wisconsin. Mr. Farson is vice-Pres. of the Rockford & Interurban Ry. Co., Rockford, Ill.

LA SALLE, ILL.—We are informed that route for the Illinois Valley Ry. Co.'s extension to Princeton, 17 miles, is not yet selected. Two lines will be run and location surveys are now in progress. Contracts will probably be let during the winter. An extension from Seneca to Morris, Ill., 12 miles, also is to be built early in 1906. Location surveys will be made this year for this extension. W. H. Caton, of Ottawa, Ill., is Ch. Engr. H. E. Chubbuck, of La Salle, is Gen. Mgr.

SULLIVAN, ILL.—The Decatur, Sullivan & Mattoon Transit Co. has been incorporated at Sullivan, Ill., with a capital of $600,000. Company will build an interurban road from Decatur, Ill., to Mattoon, passing through Mount Zion, Dalton City, Bethany, Sullivan and Coles. The incorporators are J. M. Clokey and Felix B. Tait, of Decatur; A. R. Scott, of Bethany; G. B. Spitler, of Mount Zion; J. H. Uppendahl, of Dalton City; W. A. Steele and J. B. Titus, of Sullivan; R. B. Starbuck and E. C. Craig, of Mattoon. Estimated cost of construction is placed at $600,000. R. B. Starbuck, of Mattoon, is the promoter.

SHEBOYGAN, WIS.—We are advised that capital has been secured for building the Fox River Ry. Co.'s line from Sheboygan to Cleveland, Manitowoc, Reedsville, Brillion and Kankouna, Wis., 60 miles. Line has been surveyed and contracts will be let in the course of about 30 days. C. W. Behnke, Brillion, Wis., is Pres. Isaac A. Smith, St. Louis, Mo., is Ch. Engr. O. C. Behnke, Brillion, is Secy.

KEOSAUQUA, IA.—We are advised that C. H. L. Barrett, of Kansas City, Mo., has been appointed Ch. Engr. of the proposed electric railway between Keosauqua and Fairfield. W. A. Duckworth, Keosauqua, is Chn. of general committee in charge of the project. The line will be 30 miles long. Surveys have been completed. Noted fully on Oct. 19.

DUBUQUE, IA.—O. A. Fox, Pres. Northern Electric Mfg. Co., of Madison, Wis., is at the head of movement to build an interurban line from Dubuque to Apple River, Ill., by way of Platteville, Cuba City, Hazel Green and Sinsinawa and from Apple River to Shullsburg.

DAYTON, TEX.—We are informed that surveys and estimates have been made and that right-of-way is being secured for the Liberty Transportation Co.'s line from Dayton into oil fields seven miles distant. Contract for construction is not let yet. R. A. Greer, Beaumont, Tex., is Pres.

WAXAHACHIE, TEX.—J. S. Daugherty, of Houston, Tex., has been granted a 35-year franchise through Waxahachie for his proposed electric railway, which will extend from Dallas to Ennis. Preliminary survey is made.

ENID, OKLA.—Thomas P. Hopley, editor of the "Daily News," has sent out an announcement that this city will grant a 50-year street railway franchise to any person or party who will guarantee to build six or eight miles of track in this city within a reasonable time. Population is 1[illegible].

TACOMA, WASH.—We are advised that the Puget Sound Electric Ry. Co. will build a 2-mile extension to Bismark, but that it will not be contracted for. W. M. Bosworth is Ch. Engr., at Tacoma. J. Furth, Seattle, is Pres.

SPOKANE, WASH.—We are advised that the Spokane Traction Co. will at once commence construction on a 5-mile extension to

Hillyard. Company does its own construction. Jay P. Graves is Pres. and Benjamin J. Weeks Gen. Mgr. at Spokane. Company operates 17 miles of line.

OAKLAND, CAL.—Directors of the San Francisco, Oakland & San Jose Ry. Co. will hold a meeting on Dec. 31 to consider a plan to issue bonds for $1,500,000 for purpose of constructing and completing its lines and for new equipment. H. Wadsworth, 14 Sansom St., San Francisco, is vice-Pres.

SAN FRANCISCO, CAL.—We are informed by Bruce Cornett, Secy. Ocean Shore Ry. Co., 331 Pine St., San Francisco, that this railway will be 53 miles long, when completed. 12 miles are graded and work is progressing along entire line. C. E. LOSS, James Flood Bldg., San Francisco, is general contractor, as previously announced in Engineering News. Capital is secured and all right-of-way. CHARLES C. MOORE & CO., San Francisco, have contract for steam plant, and the GENERAL ELECTRIC CO., Schenectady, N. Y., the contract for electrical equipment. The route is from San Francisco to Balboa, Half Moon Bay, Pescadero and Santa Cruz. John B. Rogers is Ch. Engr. and W. E. Dean Pres., at San Francisco.

SAN BERNARDINO, CAL.—We are informed that surveys are now being made for a 6-mile extension of the San Bernardino Valley Traction Co.'s line, from Colton to Riverside. Capital is secured. Date is not yet set for receiving bids. A. C. Denman, Jr., is Gen. Mgr. It is estimated that cost will be $300,000.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Municipal ownership of lighting plant is reported to be under consideration. Councilman McSweeney is interested.

QUINCY, MASS.—Council has appointed a special committee to take up matter of municipal lighting plant.

NEW YORK, N. Y.—The Tottenville Light & Power Co., will erect a large power house on Staten Island. W. E. Cook, 280 Broadway, is interested.

RUTHERFORD, N. J.—Bids are asked until 8 p. m., Nov. 3 for lighting borough streets for three years, from Jan. 1, 1906. William Black, Chn. Lighting Com.

DANVILLE, PA.—The time for receiving bids for erection of power house, electric generator plant, engines, boilers, motors, etc., for wiring, at State Hospital for the Insane, Danville, has been extended from Oct. 27 to Nov. 10, as is stated in our advertising columns.

BALTIMORE, MD. — The AMERICAN STREET LIGHTING CO. has been awarded a 2-year contract for maintaining naphtha and gasoline street lamps. Noted on Oct. 19.

WASHINGTON, D. C.—The commission which is considering bids for the big light, heat and power plant that will supply all the government buildings on Capitol Hill, will make a tour of inspection that will include several important power stations and electric plants before submitting its report to Congress. The commission consists of Col. Chas. S. Bromwell, Supt. of Public Bldgs. and Grounds; C. P. Gliem, Ch. Electrical Engr. of the Capitol; W. S. Stratton, Director of the Bureau of Standards; W. D. Harding, Engr. of the Congressional Library; Charles Titlow, Steam Engr. of the Library, and Prof. S. H. Woodbridge, Consulting Engr.

MARTINSVILLE, VA.—City will sell $12,000 of bonds to complete the light and power plant in course of construction at Smith River mills.

SHENANDOAH, VA.—A franchise will be sold on Nov. 21, to highest bidder, for furnishing electric light and power at this place. D. S. Louderback is Mayor.

CHARLESTON, W. VA.—The city council has granted a franchise to the Kanawha Gas Co., to establish, maintain, and operate gas works, pipe lines, tubing and service pipes.

WILLIAMSTON, N. C.—S. J. Everett, Secy. Business Men's Association, desires correspondence regarding installation of an electric-light plant.

LENOIR, N. C.—E. C. Ivey has been granted a 30-year franchise for an electric light and power plant.

BISHOPVILLE, S. C. — The Bishopville Light & Power Co. has been chartered with $17,500 capital stock. A. C. Baskins is Pres.; George M. Stuckey, vice-Pres., and R. W. McLendon, Secy.-Treas.

ANDERSON, S. C.—Joseph E. Sirrine, of Greenville, S. C., will be Engr. for proposed power development project at Hattons Shoals. The Hattons Ford Power Co. is promoting the plan. Est. cost, $750,000. Company was incorporated with $150,000 capital, by A. T. Smythe, of Charleston, S. C.; R. S. Ligon and Fred. G. Brown, of Anderson.

BAMBERG, S. C.—The city has voted to issue $15,000 of bonds for an electric light plant. C. R. Brabham, J. A. Byrd and A. W. Knight, the commissioners of public works, sell the bonds and will erect the plant soon.

TALLAPOOSA, GA.—City has voted to issue $40,000 of bonds for erecting an electric light plant.

AUBURN, GA.—Town is considering advisability of installing an electric light and water-works plant. J. B. McCrary, of Senoia, Ga., is Engr.

ATLANTA, GA.—The Southern Light & Power Co. will begin operations early next year. Power will be developed near Atlanta and furnished to Fulton and DeKalb Counties. T. J. Kelly is Pres., at Atlanta, and W. A. Carnegie, Secy.

MAYO, FLA.—The Mayo Electric & Water Power Co. will be incorporated by Clarence H. Ellis, of Alton, Fla., who has a franchise in Mayo. Electric light plant will be built.

COLLIERVILLE, TENN.—R. C. Kinnear, Jackson, Miss., is Engr-in-Charge of the construction of a municipal electric light plant.

CHATTANOOGA, TENN. — Work will be commenced at once on the dam and power plant for the Chattanooga-Tennessee River Power Co. A. R. Stewart, of Columbia, S. C., will be Engr.-in-Charge, for the contractor, W. J. OLIVER. Noted last week.

OAKDALE, KY.—The American Electric Lighting Co. has secured a contract to light Oakdale for five years. A. F. Steber is Pres.

MISHAWAKA, IND.—The Mishawaka Business Men's Association is interested in plan to build a gas plant here. Joseph de Lorenzi is Pres.

AURORA, IND.—Council has sold local water-works plant. New owners agree to install an electric light plant in connection with water-works.

HOUGHTON, MICH.—The Houghton Construction Co. has prepared plans for municipal lighting plant for L'Anse.

ELK RAPIDS, MICH.—Arthur McMillan, of Toledo, O., is purchasing equipment for proposed electric lighting plant in this city, for which he recently was awarded a contract.

STREATOR, ILL.—The Illinois Light & Traction Co. has been incorporated here. A. T. Denton is interested. Capital is $400,000. Board of Directors is composed of W. V. Coons, Fred. Edwards, A. T. Denton, and A. M. Snyder.

MILWAUKEE, WIS.—Bids for public lighting will be received about Nov. 18.

DECORAH, IA.—We are advised that the ROBERTS & ABBOTT CO., of Cleveland, O., recently closed a contract for the engineering of a cement and iron dam on the upper Iowa River between the towns of Decorah and Waukon, Ia. The dam will have a maximum height of 28 ft. It will be constructed with a balanced movable crest, which will make it possible for the head to be varied. The power generated will be transmitted electrically, at high voltage, to Decorah and Waukon and used for lighting and power purposes at those points. In connection with this dam the county officials are considering the building of a cement bridge which will be made part of the dam structure. Drawings are being made.

MINNEAPOLIS, MINN. — The Patterson Street Lighting Co., of St. Paul, submitted the lowest bid for street lighting contract recently, for 5,500 all-light gas lamps. The Minneapolis General Electric Co. submitted the following bid on 1,056 all-night 2,000-c. p. lamps; at $94 each from January to June and $84 each from June to December. Andrew Rinker is Cy. Engr.

FORT D. A. RUSSELL, WYO.—Bids are asked until 2 p. m., Dec. 2, for furnishing and installing electric fixtures in certain buildings, and for extending lighting system, so as to make proper connections therewith. Capt. W. S. Scott, Q. M. (Advertised, Engineering News.)

WARSAW, MO.—Bids are asked by Mayor S. O. Davis, until 6 p. m., Nov. 10 for furnishing material and equipment for an electric light plant. Specifications may be seen at New York and Chicago offices of Engineering News. (Advertised, Engineering News.)

HOT SPRINGS, ARK.—The Arkansas Acetylene Gas Co. has been incorporated with $10,000 capital stock. Dr. J. C. Minor is Pres.; J. C. McManus, vice-Pres.; S. W. Leslie, Secy., and T. J. O'Neil, Treas.

SPRINGDALE, ARK. — An electric light plant will be established here. A franchise has been granted.

SHAWNEE, OKLA.—The Shawnee Gas Co. will erect a $150,000 coke, gas and tar plant here, it is reported.

CALISTOGA, CAL.—The Calistoga Electric Light & Power Co. has been incorporated to establish an electric lighting and power plant. The articles of incorporation also provide for the establishment of a gas system. The capital of the company is $20,000. The directors of the company are G. W. Cutler, E. L. Armstrong, G. W. Cutler and Mrs. Edna Brown of Calistoga; and District Attorney Reymond Benjamin, of Napa, Cal.

LOS ANGELES, CAL.—The Los Angeles Gas & Electric Co. has been granted a 3-year contract to light city streets.

ANAHEIM, CAL.—An election will be held on Nov. 11 to vote upon issuance of bonds for municipal work, as follows: $23,000 for city water-works; $25,000 for electric light plant; $15,000 for gas plant; $3,000 for sidewalks; $3,000 for oiling public streets. Edward B. Merritt, Cy. Clk.

SAN FRANCISCO, CAL.—The Stanislaus Electric Power Co. has been organized with a capital of $10,000,000; $6,000,000 of which has already been subscribed. The financiers of the new corporation are Tucker, Anthony & Co., of Boston, Mass., and the Knickerbocker Trust Co., of New York City. Beach Thompson and Leopold Michels, of San Francisco, and Leopold Wallach, 33 Wall St., New York City, are the promoters. It is planned to develop 20,000 HP. on the Stanislaus River.

MOUNTAINVIEW, CAL.—Board of Trade is interested in plan to install a municipal electric light and power plant. Walter A. Clark, D. B. Frink and Oswald Becker were named a committee to consider the establishment of the plant.

MALAD CITY, IDAHO.—The Malad Light & Power Co. has been incorporated, with $100,000 capital stock. Company succeeds to the franchise, plant and rights of G. C. McLaughlin and Frank Moore, at Malad. C. F. Little is Pres.; D. S. Taggart, vice-Pres.; G. H. Jay, Treas.; J. A. Sargent, Secy., all of Salt Lake City, except Mr. Jay, whose residence is given at Great Falls, Mont.

ELSINORE, UTAH.—A. J. Poulsen, Richfield, Utah, will organize a company to install a plant near Elsinore to develop electricity which will be supplied to Gold Mountain and the Sevier valley. It is estimated that it will cost about $60,000 to install the plant.

TONOPAH, NEV.—J. B. Quigley, of San Francisco, Cal., representing party of California capitalists, it is said, has purchased site for a gas plant at Tonopah.

BRANDON, MAN.—The board of directors of the Brandon General Hospital has appointed a committee to consider the matter of installing an independent electric light plant.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The contract for widening opening for passage of vessels at Dover St. bridge has been let to CAHILL CONSTRUCTION CO., 7 Water St., Boston, for $6,002. Bids were opened Oct. 25.

BOSTON, MASS.—The following bids were received Oct. 26 for constructing draw span of Atlantic Ave. bridge: Groton Bridge Co., Worcester, $68,950; American Bridge Co., 42 Broadway, New York City, $65,660; Canton Bridge Co., 147 Milk St., Boston, $64,890; New Jersey Bridge Co., Fuller Bldg., New York City, $64,700; Eastern Bridge & Structural Co., Worcester, $62,500; King Bridge Co., Cleveland, O., $61,900; Boston Bridge Works, Boston, $58,965; Pennsylvania Steel Co., Steelton, Pa., $56,600.

BUFFALO, N. Y.—City Council has awarded to NIEL SAVAGE, of Buffalo, the contract for moving superstructure of River St. bridge. Cost, $6,790.

NEW YORK, N. Y.—The following bids were received by the Department of Bridges, New York city, on Oct. 30 for construction of toll houses, police shelters and spiral stairways on the Williamsburgh bridge: Cooper & Evans, $14,880; Louis Wechsler, $15,748; Chas. Meads & Co., $17,660; Snare & Triest Co., $19,890.

PHILADELPHIA, PA.—An ordinance authorizing the construction and maintenance by Strawbridge & Clothier, department store merchants, of a bridge across Filbert St., between Eighth and Ninth Sts., has been approved by Common Council.

DOYLESTOWN, PA.—It is stated that bids will be received by County Commissioners until Nov. 20 for constructing a stone arch bridge over Haycock Run, near Bucksville.

BEAUFORT, N. C.—The Beaufort & Western Ry. Co., recently organized, will build a bridge between this place and Morehead City. F. L. Merritt is Pres. and M. Manly, Secy. and Treas.

PENSACOLA, FLA.—Bids are asked by County Commissioners until Jan. 1, 1906, for building a steel bridge across the Perdido River. A. M. McMillan, Clk. of Circuit Court.

GREENWOOD, MISS.—Bids are asked by County Commissioners until Nov. 6 for building bench bridge west of Quiver River. C. W. Crockett, County Clk.

NEW ORLEANS, LA.—The Muller Mfg. Co. has been granted a franchise to construct an overhead bridge in Derbigny St.

CLEVELAND, O.—Bids are asked by County Commissioners until Nov. 11 for grading, draining and paving with brick a portion of Coe Ridge Road. Julius C. Dorn, County Clk.

MARION, O.—We are informed that the contract for constructing superstructure of bridge over Scioto River has been let to the MARION (O.) BRIDGE CO. for $6,900. Bids were opened Oct. 24 by County Commissioners. V. P. Garfield, County Clk.

YOUNGSTOWN, O.—F. M. Lillie, Cy. Engr., will prepare plans after Jan. 1 for viaduct over Erie R. R., from Wood to Federal St., for the city.

BLOOMFIELD, IND.—Bids are asked by County Commissioners until 2 p. m., Nov. 7, for construction of an iron bridge with stone abutments; for three concrete bridges; for cement or iron bridge with cement floor.

NEW CASTLE, IND.—County Commissioners have awarded contract to PAN-AMERICAN BRIDGE CO., of New Castle, for constructing four bridges and a steel arch. Cost, about $2,500.

VALPARAISO, IND.—Bids are asked by County Commissioners until 12 m., Nov. 6, for constructing an iron or wooden bridge over Salt Creek in Union Township. Stephen P. Corboy, County Audr.

CHICAGO, ILL.—We are informed that the following bids were received Oct. 18 by South Park Commissioners, 57th St. and Cottage Grove Ave., for constructing a concrete and stone bridge in Jackson Park: (1) Great Lakes Dredging & Dock Co., (2) Block Bridge & Culvert Co.: Bridge complete with granite facing, (1) $26,800, (2) $21,736; bridge complete with Lake Superior sandstone facing, (1) $21,720, (2) $20,572; bridge complete with Bedford limestone facing, (2) $18,560; bridge complete with Amherst (O.) limestone facing, (2) $18,149; extra excavation, cu. yd., (1) $1.20, (2) $1.50. Chas. G. Blake & Co. offered to furnish red granite No. 227 necessary for bridge f. o. b. cars, for $3,853, and same granite hauled to site for $4,584. E. G. Shumway, Secy.

DECORAH, IA.—See under Light and Power Plants.

DES MOINES, IA.—City Council has passed a resolution authorizing John W. Budd, Cy. Engr., to prepare plans for reinforced concrete bridge to be built over the Des Moines River on Locust St.

GARDEN CITY, MINN.—This city has voted to issue $1,000 of bonds to aid in building steel bridge over Watonwan River.

MINNEAPOLIS, MINN.—We are informed that bids will be received until Nov. 24 for steel work necessary for the widening of Washington Ave. bridge over the Mississippi River. Plans and specifications are on file in office of Andrew Rinker, Cy. Engr. Check, $2,500.

STILLWATER, MINN.—The JOLIET (Ill.) BRIDGE & IRON CO. has received the contract for constructing six bridges at their bid of $2,962.

WARRENSBURG, MO.—The STANDARD BRIDGE CO., of Omaha, Neb., has received the contract for construction of 36 steel bridges in Johnson County during next year.

ST. CHARLES, MO.—Alfred Riske, County Bridge Comr., states that it will cost the county $8,000 to replace bridges which were demolished by flood caused by the rains of Oct. 17. The Ohmes bridge at St. Peters, Fulkerson bridge at Defiance and the Cottleville bridge are the largest bridges gone.

JEFFERSON CITY, MO.—E. F. C. Harding, Cy. Engr., informs us that plans, etc., are being prepared for concrete culvert.

ST. CHARLES, MO.—Bids are asked by Carr Edwards, Cy. Engr., until Nov. 4 for reconstructing a bridge.

LITTLE ROCK, ARK.—Survey has been made by County Road and Bridge Commissioner Reichardt for proposed steel bridge at the Burns place in Brodie Township, 14 miles from Little Rock, to be 251 ft. long.

LITTLE ROCK, ARK.—C. T. Coffman, County Judge, has awarded contract to the VIRGINIA BRIDGE & IRON CO., of Roanoke, Va., for two steel bridges, at $4,686.

DENISON, TEX.—The Missouri, Kansas & Texas Ry. Co. has decided to replace all of the bridges in Texas with heavier structures, on account of the increasing weight of equipment and the amount of traffic handled.

WAGONER, IND. T.—The Missouri, Oklahoma & Gulf Ry. Co., F. C. Faust, Ch. Engr., Muskogee, Ind. T., has let contract for building four steel bridges and 2,000 ft. of trestle, grading, etc., on the extension of its line from Wagoner to Afton, Ind. T.

OKLAHOMA CITY, OKLA.—County Commissioners are considering the building of steel bridge across Canadian River at Robinson St.; bridge to be 100 ft. long, with three trusses, concrete floor, etc.

WATONGA, OKLA.—Bids are asked by County Commissioners until 9.30 a. m., Nov. 6, for constructing three bridges. John M. Tyler, County Clk.

DENVER, COLO.—Plans and specifications for bridges here for the U. S. Reclamation Service may be seen at office of Engineering News, 220 Broadway, New York City. Bids will be opened on Nov. 8, as advertised in Engineering News.

SPOKANE, WASH.—We are informed that the contract for constructing bridge on Mission Ave. was let to JOS. ZIRNGIBLE, of Spokane, for $10,190. Bids were opened by Board Public Works on Oct. 19.

ONTARIO, ORE.—Sealed bids will be received by County Commissioners until 2 p. m., Nov. 8 for construction of a steel bridge across Malheur River at Riverside. W. G. Thomson, County Clk.

MADERA, CAL.—Bids are asked by Board of Supervisor suntil 10 a. m., Nov. 7 for construction of two wooden bridges. C. J. Bubanks, Clk.

MODESTO, CAL.—The contract for reinforced concrete bridge over Dry Creek, on the Modesto-Waterford road, was awarded by Board of Supervisors to the PACIFIC CONSTRUCTION CO., of San Francisco, for $24,387.

REDWOOD CITY, CAL.—Bids are asked by Daniel R. Stafford, Town Clk., until 7.30 p. m., Nov. 6, for construction of a wooden bridge at the juncture of First and Washington Sts.

MOUNT, IDAHO.—It is reported that the County Commissioners have made an appropriation of $1,000 for bridge across south fork of Clearwater River.

TORONTO, ONT.—The HAMILTON (Ont.) BRIDGE CO. has been awarded contracts for two bridges to cross Muskoka River at Bracebridge, costing $14,000, and at Huntsville, costing $5,000.

GUELPH, ONT.—Reports state that the Township Council will build a steel bridge to replace the Caraher's bridge.

TORONTO, ONT.—The new steel bridge over Mattawa River will be built by the HAMILTON (Ont.) BRIDGE CO. for $8,900.

VICTORIA, B. C.—The Board of Trade has made a demand for a $20,000,000 bridge to connect Vancouver Island and the mainland.

EDMONTON, N. W. T.—It is stated that the Canadian Northern is building a temporary timber bridge over the North Saskatchewan River, with approaches 5,400 ft. long on the permanent concrete piers, which will be replaced early next year by a permanent steel structure. M. H. McLeod is Ch. Engr., Winnipeg, Man.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—Leonard T. Mood, Arch., 9 Ralph St., Lowell, has drawn plans for a large roller skating rink for Mr. Quirbach, at Methuen and Hampshire Sts., Lawrence. Address architect.

NORTHAMPTON, MASS.—L. Clark Seelye, Pres. Smith College, announces that the college will erect an administration building early next year, to cost $100,000.

NEW LONDON, CONN.—Bids are asked by Constructing Quartermaster, New London, until Nov. 23 for constructing, heating, plumbing and electric wiring hospital at Fort Michie, N. Y.

SYRACUSE, N. Y.—The Knickerbocker Construction Co., 15 Cortlandt St., New York City, will build for the Lynch estate, Chas. C. Cook and Walter McMullin, Trustees, an apartment house, to accommodate 100 families. Geo. Keister, 11 West 29th St., New York City, will prepare the plans. Cost, $300,000.

ELMIRA, N. Y.—Bids are asked by Charles F. Howard, Pres., Bd. Managers, New York State Reformatory, Elmira, until noon, Nov. 13, for heating and steam connections to machinery, plumbing, electric light wiring and fixtures, for laundry, shops and bathhouse, New York State Reformatory. G. L. Heins, State Arch., Albany, N. Y. (Advertised, Engineering News.)

NEW YORK, N. Y.—The following bids were received by Board of Education for construction of new public school No. 148

on Ellery and Hopkins Sts., Borough of Brooklyn: P. J. Walsh, 503 Fifth Ave., $327,000; Frank Berlenbach, $342,579; R. E. Heningham, 4 Court Sq., Brooklyn, $316,719; Chas. H. Peckworth, 415 Hudson St., $317,-760; Geo. Hildebrand, 38 Park Row, $326,700; Jno. Auer & Son, 957 Broadway, Brooklyn, $318,970; Clark & Stowe, 229 Kent St., $323,-000; Arci Const. Co., 99 Broadway, Brooklyn, $327,000; Church Const. Co., 1 Madison Ave., $336,000; Thos. Cockerill & Son, 147 Columbus Ave., $334,900.

NEW YORK, N. Y.—The Board of Estimate has apropriated $800,000 toward the construction of the tuberculosis hospital at Staten Island. Jas. H. Tully, Comr., Dept. Public Charities.

Neville & Bagge, Archs., 217 West 125th St., have plans completed for an apartment house to be erected at 122d St. and Broadway, for A. C. & H. M. Hall Realty Co., 360 West 125th St. Brick, stone and terra cotta, semi-fireproof, 6 stories, 92 × 90 ft.

Henry Fouchaux, Arch., Broadway and 162d St., is taking figures on sub-contracts for an apartment house to be erected at 173d St. and Audubon Ave., for Frank E. Kee, 356 West 141st St. Brick, stone and terra cotta, semi-fireproof, 6 stories, 87 × 90 × 95 ft.

Pollard & Steinam, Archs., 234 Fifth Ave., are taking figures on a school to be erected at 329-31 East 62d St., for the Bethel Sisterhood, care Mrs. Jerome Hanover, 15 East 92d St. Brick and stone, fireproof, 4 stories, 40 × 90 ft.

Cady & See, Archs., 6 West 22d St., are taking figures on a church and parish house to be erected at 114th St. and First Ave., for the New York City Church Extension and Missionary Society of the M. E. Church, 150 Fifth Ave. Brick and stone, fireproof, 5 stories, 50 × 100 ft.

V. J. Hedden & Sons, 1 Madison Ave., want bids on sub-contracts for new church and vestry to be erected at 414-24 West 34th St. for St. Nicholas R. C. Church, 418 West 32d St. M. Le Brun & Sons, 1 Madison Ave., are Archs. Buildings will be of brick and stone, fireproof, and consist of church, 1 story, 74 × 197 ft.; vestry, 3 stories, 30 × 70 ft.; rectory, 5 stories, 45 × 70 ft.; convent, 5 stories, 55 x 90 ft.; school, 6 stories, 75 × 100 ft.; power-house, 1 story, 40 × 40 ft. V. J. Hedden & Sons Co., 1 Madison Ave., is the general contractor.

Commercial Construction Co., 1 Madison Ave., deposited the only bid, $10,265, for electric wiring and switchboards for public school No. 10 in course of erection at St. Nicholas Ave. and 117th St. Brick and stone, 5 stories, 60 × 111 ft. and 60 × 170 ft. P. J. Ryan, 314 West 44th St., is the general contractor.

PEET, McANERNEY & POWERS, 225 Fourth Ave., have been awarded the contract for electric wiring and switchbards for new office building for Mutual Insurance Co., to be erected at 58-60 Cedar St. Clinton & Russell, Archs., 32 Nassau St. Brick and marble, 8 stories, 40 × 70 ft. A. R. Whitney, Jr., 135 Broadway, is the general contractor.

E. E. Paul, 289 Fourth Ave., who has the general contract for Carnegie Library No. 15, wants bids on all sub-contracts. Building is to be erected at 228-32 East 23d St., and will be of brick and stone, 3 stories, 50 × 80 ft. Carrere & Hastings, Archs., 28 East 41st St.

C. Abbott French, Arch., 406 West 42d St., has plans in progress for loft building to be erected at 9-11 Walker St., for Ole H. Olsen Co., 1518 Vyse Ave. Brick and stone, 8 stories, 60 × 108 ft.

NEW YORK, N. Y.—BUNN & NASE, 1123 Broadway, has been awarded the general contract for alterations to the amount of $50,000 to be made to residence of W. P. Clyde, 19 State St., at 5 West 51st St. Brick and stone, 4 stories, 30 × 92 ft.

C. P. H. Gilbert, Arch., has plans in progress for two residences to be erected on Fifth Ave., between 76th and 77th Sts. Both will be brick and stone, 7 stories, 32 × 100 ft. Architect will take bids Nov. 10 on mason work, carpenter work, plastering, electric wiring, heating and ventilating and plumbing, all to be taken separately.

M. Rosenblum, 1 East 117th St., wants bids on carpenter work for new office building he is erecting at 116th St. and Lenox Ave., to cost $100,000. L. J. F. Weiber, 103 East 125th St., is Arch. Brick and stone, non-fireproof, 4 stories, 61 × 105 ft. Owner also wants bids on electric wiring and switchboards.

Ernest Flagg, Arch., 35 Wall St., has plans in progress for new office building to be erected at 311-15 West 43d St., for Chas. Scribner's Sons, 153 Fifth Ave. Brick, stone and terra cotta, fireproof, 11 stories, 100 × 125 ft.

Oscar Hammerstein, care Victoria Theatre, is taking figures on materials for electric wiring and switchboards to be installed in the new Drury Lane Theatre, to cost $500,-000, now in course of erection at 34th St., near Ninth Ave. Wm. E. Mowbray, 1300 Broadway, is Arch. J. E. Brooks, 45 Broadway, is Constructing Engr. Brick and stone, 6 stories, 125 × 197 ft. Day work.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until Nov. 13 for installing electric equipment in new public school No. 42, Borough of Bronx. Also for installing heating and ventilating apparatus for additions to and alterations in school No. 16, Borough of Richmond. Also for general construction, etc., of new school No. 21, Borough of Richmond.

TROY, N. Y.—The State Armory Board has awarded the contract for the reconstruction of drill hall and other improvements to the HUDSON VALLEY CONSTRUCTION CO., of Troy. Cost, $30,000.

ALBION, N. Y.—It is stated that the Board of Education has rejected all bids for erecting new high school building as being too high. The lowest bid was $92,000. Plans will be revised and new bids will be asked for.

SCHENECTADY, N. Y.—Andrew Carnegie has made an offer to Union University, Schenectady, for an engineer building, provided that the institution will raise a like amount for the purpose. Rev. A. V. V. Raymond is Pres.

FORT HAMILTON, N. Y.—The following awards have been made for construction of buildings at Fort Hamilton: WM. HAMILTON, Des Moines, Ia., constructing two barracks, $86,102; double captains' quarters, $19,409; double lieutenants' quarters, $16,731. J. W. PARTLAN, Detroit, Mich., for plumbing in double barracks, $4,940; in double captains' quarters, $1,508; in double lieutenants' quarters, $1,508. MORRIS & MILLER, of Detroit, for plumbing in double barracks east of guardhouse, $4,831; gas piping in double barracks, $390; in double captain's quarters, $119; in double lieutenants' quarters, $98. J. S. FARRELL & CO., Indianapolis, Ind., electric wiring in two double barracks, $1,300; in double captains' quarters, $495; in double lieutenants' quarters, $399. WM. A. BOWLES, of Milwaukee, Wis., heating in two double barracks, $7,556; in double captains' quarters, $1,254; in double lieutenants' quarters, $1,230.

NEWARK, N. J.—Arthur Connelly, Arch., 142 Market St., has plans completed for warehouse to be erected at Frelinghuysen Ave. and Lehigh Valley tracks, for H. Koch & Co., 40 Wicklif St., Newark. Wood covered with corrugated iron, 3 stories, 280 × 317 × 453 ft. Owner will take figures immediately.

HASBROUCK HEIGHTS, N. J.—Bids are asked by Board of Education until Nov. 6 for construction of a 14-room school building.

PITTSBURG, PA.—W. A. Thomas, Arch., Park Bldg., is preparing plans for 20 brick houses for J. W. Mills, Bedford Ave. and White St. Cost, $50,000.

WILKESBARRE, PA.—Owen McGlynn, Arch., Simon Long Bldg., is at work on plans for a church for Rev. Fr. Murgas, in North Wilkesbarre, Sacred Heart Slovak. Gothic architecture. Plans will be ready about Nov. 2. Cost, $50,000.

PHILADELPHIA, PA.—The contract for erecting an addition to building of the Pennsylvania Historical Society, 13th and Locust Sts., has been let to J. E. & A. L. PENNOCK, 307 Walnut St. Cost, $150,000.

PHILADELPHIA, PA.—Bids are asked until noon, Dec. 2, for construction of a dwelling, oil house, barn, etc., at the Reedy Island Range Rear Light Station, Del. Col. R. L. Hoxie, U. S. Engrs. (Advertised, Engineering News.)

BALTIMORE, MD.—The Board of Estimate has appropriated $317,000 for school buildings.

The Colonial Trust Co., 13½ West Saratoga St., announces that it will erect a one-story building, 66 × 90 ft., for its own use, on Saratoga, near Charles St. Cost, about $200,000.

Augustus Hampson, 207 St. Paul St., has purchased lot bounded by Eagle, Payson and Pulaski Sts., and will erect about 100 two-story dwelling houses on the site.

WASHINGTON, D. C.—Bids have been opened for the construction of new building for the National Metropolitan Citizens' Bank, on 15th near F St., Washington, D. C. The building will be seven stories, and will occpy a site 76 × 116 ft. It was designed by Gordon, Tracey & Swartout, 244 Fifth Ave., New York City, associated with B. Stanley Simmons, 523 Ninth St., Washington. The front will be of brick with bluestone and terra cotta trimmings. Bids were as follows: Ambrose B. Stannard, St. James' Building, New York City, $237,700; Fissell & Wagner, Home Life Bldg., $255,603; S. H. Edmonston, 611 G St., $297,293; W. E. Spier, Bliss Bldg., $247,900; John McCregor, $246,629; J. L. Parsons, 309 Lenman Bldg., $267,000; C. A. Langley, 310 12th St., $249,381; Norcross Bros., 15th and New York Ave., N. W., $229,644; Camp & Co., $248,054; Thompson-Starrett Co., Commercial National Bank Bldg., $255,500; Geo. A. Fuller Co., Home Life Bldg., $247,735; Wells Bros. Co., $269,000.

WINSTON SALEM, N. C.—E. C. BOWMAN & CO., of Birmingham, Ala., have been awarded contract to build $100,000 hotel here.

ATLANTA, GA.—Morgan & Dillon, Archs., 707 Prudential Bldg., have plans in progress for building for College of Physicians and Surgeons. Cost, $80,000.

HOMER, GA.—F. F. Hill, Ordinary of Banks County, will receive proposals until Nov. 15 for building and completing a new fireproof jail at Homer. J. W. Golucke & Co., Archs., 510 Temple Court, Atlanta, Ga.

FLORALA, ALA.—Bids will be received by the Lake Jackson Hotel Co. until Nov. 15 for construction of a hotel. Lockwood Bros., Archs., Columbus, Ga.

NEW ORLEANS, LA.—MILLIKEN BROS., 11 Broadway, New York City, have been awarded general contract for erecting a $400,-000 hotel at New Orleans, for the Denechard Hotel Co. Toledano, Wogan & Shepard, 121 Carondelet St., are Archs. Brick, stone and terra cotta, fireproof, 10 stories, 80 × 218 ft. Milliken Bros. want figures on electric wiring and switchboards. Owners want figures on engines, generators, boilers, motors, elevators, heating system and plumbing.

MEMPHIS, TENN.—Macon & Anderson will erect a four-story building to be used for business college, at a cost of $60,000. John Gaisford is Arch.

MEMPHIS, TENN.—R. E. McGill and others will erect a 12-story building, fireproof, of steel construction, to have its own heating and power plant. A. B. Groves is Arch., St. Louis, Mo. W. A. SUTHERLAND, of Chicago and St. Louis, is contractor.

LOUISVILLE, KY.—Kenneth McDonald & W. J. Dodd, Archs., Equitable Bldg., have prepared preliminary sketches and plans for an annex to "The Seelbach" operated by Seelbach Hotel Co. The plans provide for a 10-story building, 80 × 90 ft., of stone and brick. Cost, $300,000.

MUNCIE, IND.—Alfred Grindle, Arch., Johnson Blk., is working on plans and will be ready for figures about Nov. 1 for a bank and apartment building for the Mutual Home & Savings Association, D. A. McClain, Pres.

LOUISVILLE, KY.—The Fidelity Trust Co. will erect a six-story apartment house at a cost of $80,000.

PERU, IND.—The County Commissioners have accepted plans of Crapsy & Lawson, Archs., 17th and Race Sts., Cincinnati, O., for new court-house here. Bids will be asked for in a few weeks.

TERRE HAUTE, IND.—The Citizens Telephone Co. has ordered plans and will soon ask for bids for construction of a large exchange building. G. L. Hutchinson is Gen. Mgr.

EVANSVILLE, IND.—W. H. McCurdy has purchased a site at Fourth and Sycamore Sts. on which to erect a 10-story office building. It is stated that the plans will be prepared this winter, so that the work of construction may be started the coming spring.

CHICAGO, ILL.—Reynolds & Britton, 140 Dearborn St., contemplate the erection of a flat building next spring. S. N. Crowen, 85 Dearborn St., will prepare plans. Cost, $80,000.

Sellon & Harley, Archs., 138 Washington St., have completed plans for 12 houses, to be erected at West Auburn Park for Emil & Robert Frank, 97 Washington St. Bids will be received by owners. Cost, $50,000.

CHICAGO, ILL.—Marshall & Fox, Archs., 164 Dearborn St., are about to let contracts for a stable and show ring, to be erected at 59th and Paulina Sts., for M. H. Tichenor & Co. Cost, $60,000.

Same architects are taking figures for an apartment building, to be erected at 23 Lake Shore Drive, for C. N. Marshall. Brick and stone, fireproof, 8 stories, 58 × 130 ft. Cost, $225,000.

Thos. McCall, Arch., 9 Jackson Blvd., is taking figures for an apartment building to be erected at 48th St. and Calumet Ave., for W. R. Hall. Brick and stone, 3 stories, 100 × 130 ft. Cost, $60,000.

ST. PAUL, MINN.—Kees & Colburn, Archs., 603 Kasota Blk., Minneapolis, have completed plans for new Orpheum Theatre, which will be erected at Fifth, St. Peter and Market Sts., St. Paul. Bids will be called for when plans have been approved by building inspector. Cost, $150,000.

MINNEAPOLIS, MINN.—The Minneapolis Club has appointed R. W. Gibson, 76 William St., New York City, architect for its proposed club house. Cost, $200,000.

PIPESTONE, MINN.—Bids are asked by F. E. Leupp, Comr. Indian Affairs, Washington, D. C., until 2 p. m., Nov. 21, for constructing complete a superintendent's residence and employes' quarters, both of stone, with plumbing, steam heat and gasoline gas piping. Willard S. Campbell, Supt., Pipestone.

FARGO, N. DAK.—The contract for construction of post-office at Fargo has been let to J. W. MILLER, of St. Paul, Minn., for $64,768. Bids were opened Oct. 12.

ST. LOUIS, MO.—Jas. A. Smith, Cy. Arch., City Hall, has started plans and will have same ready for figures about Jan. 1 for a three or four-story quarantine hospital, 60 × 160 ft., for Board Local Improvements. W. B. Dryden, Secy., City Hall. Cost, $100,000.

ST. LOUIS, MO.—Cope & Stewardson, Archs., Security Bldg., will receive bids until Nov. 8 for a two-story residence, 65 × 55 ft., for D. C. Cattlin, Vandeventer Place. Cost, $60,000.

J. N. Watson, Arch., Chemical Bldg., has prepared and will receive bids for 25 two-story residences, 38 × 30 ft. Cost, $100,000.

ST. LOUIS, MO.—Wm. A. Cann., Arch., Missouri Trust Bldg., has prepared plans and will take bids until Nov. 11 for a five-story basement mercantile and office building, 180 × 100 ft., for the Unity Building Co., care architect. Cost, $150,000.

Cope & Stewardson, Archs., Security Bldg., have prepared plans and will receive bids until Nov. 7 for a three-story residence, 65 × 65 ft., for T. Leionkerger. Cost, $80,000.

HOT SPRINGS ARK.—W. K. Johnston, Arch., 184 La Salle St., Chicago, Ill., has completed plans for an addition to hotel at Hot Springs. Brick, fireproof, two stories, 63 × 157 ft. Bids will be received by owners at once on steel work and on other contracts later. Cost, $65,000.

LITTLE ROCK, ARK.—H. H. Foster is chairman of committee appointed by the Arkansas Synod of the Presbyterian Church to select a site for a female seminary, which will be erected as soon as location has been chosen, which will be in a short time. Cost, $100,000.

DALLAS, TEX.—The Board of Education has issued a circular letter inviting architects to submit preliminary plans for a new high school. This circular, which gives complete information relative to proposed building, may be seen at office of Engineering News, 220 Broadway, New York City. J. L. Long, Supt.

DENVER, COLO.—Frank S. Snell, Arch., 1517 Tremont St., is drawing plans for an apartment house for the J. F. Brown Investment Co., 201 Boston Bldg. Cost, $100,000.

GRAND JUNCTION, COLO.—Bids are asked by C. F. Larrabee, Act. Comr., Indian Affairs, Washington, D. C., until 2 p m., Nov. 29, for construction of mess hall and employes' quarters, work shop and superintendent's cottage, all of brick, with plumbin, steam heat and electric light wiring, a dairy barn and laundry of brick with plumbing and electric light wiring, and for heating and ventilating three large buildings; also for moving and relocating hospital. Chas. E. Burton, Supt., Grand Junction.

SAN JOSE, CAL.—This city proposes to hold an election to vote bonds for school building purposes.

LOS ANGELES, CAL.—C. W. Roberts, of the Roberts Land Co., 203 Mercantile Place, writes us that the company is erecting a reinforced concrete building, five stories high, and intend to build more of these buildings later in the season. It is desired to be placed in correspondence with manufacturers of concrete machinery.

WINNIPEG, MAN.—It is [illegible] that architects will be requested to [illegible] plans for enlarging the Maryland M[illegible] Church. Rev. R. E. Spence is pastor.

WATER SUPPLY—IRRIGATION.

The names of parties award[illegible] contracts are printed in capital [illegible]

FORT WILLIAMS, ME.—[illegible] asked by Capt. A. W. Yates, Q. M., U. [illegible] Portland, Me., until 11 a. m., Nov. 1[illegible] extensions of water and sewer lines at [illegible] Williams, Me., to include two hydrant[illegible] manholes and two gate valves.

BURLINGTON, VT.—Special C[illegible]ttee, of which F. O. Sinclair, Cy. En[illegible] Supt. W.-W., is a member, has reco[illegible]ed the construction of a slow sand fi[illegible] plant as the best method of impro[illegible] the city water supply. Two locations ha[illegible] con-sidered for the filter, one at th[illegible] shore near the pumping station, and [illegible]her on the hill near the present r[illegible] The total cost of the work for a filt[illegible] hill is estimated at $58,000, divide[illegible] as fol-lows: New pipe line, $15,000; f[illegible] $40,000; land, $3,000. For filter at th[illegible] shore, the cost is estimated at $55,000, [illegible] up as follows: Low lift pump, $5,000; [illegible] $40,-000; additional cost of foundatio[illegible] clear water basin, $5,000; land, $5,000.

SPRINGFIELD, MASS.—We a[illegible] advised that on Oct. 30 City Government [illegible] unan-imously to petition legislature fo[illegible] mission to take waters of Westfield Littl[illegible] River for future supply. Westfield Little [illegible] area at present is 47 sq. miles, and it [illegible] proposed to develop it to 15,000,000 gallo[illegible] capacity. Plan was suggested by Allen Haze[illegible] Consult. Engr., New York. In the mean[illegible] it is proposed to install double intermi[illegible] sewage filtration of present (Ludlow) sour[illegible] of sup-ply to free water from Anabaena; [illegible] of this is $75,000. Cost of Westfield L[illegible] River work, including filtration, which is to be in-cluded, is $2,000,000. E. E. Lo[illegible]ridge is Engr. W. Dept.

PROVINCETOWN, MASS.—Water Commissioners are stated to have engaged Percy M. Blake, Engr., Newtonville, Mass., to make investigation looking to securing a supply of good water for the town.

BROCKTON, MASS.—Water Commissioners will make a report to City Council before the end of the year on the advisability of installing high pressure water service for fire protection purposes. Charles R. Felton is Cy. Engr.

MILLBURY, MASS.—Matter of town purchasing plant of Millbury Water Co. is under discussion. Daniel J. Dempsey is Chn. Selectmen.

NORWICH, CONN.—Water Commissioners, P. H. Harriman, Pres., are stated to be considering matter of metering city water.

AUBURN, N. Y.—Water Board, J. Lewis Grant, Supt. W.-W., proposes to extend the water-works intake pipe about 2,000 ft. into the lake.

LYONS FALLS, N. Y.—Contract for constructing village water-works (bids opened Oct. 12) is stated to have been let to JOHN MARSDEN, Utica, N. Y., for $24,440.

NEW YORK, N. Y.—Board of Estimate has approved the plans prepared by the new Water Supply Commission for providing an additional water supply for the city. The plans will have to be approved by the State Water Commission before anything further can be done. The Board of Estimate approved the immediate appropriation of $112,-000,000 for the work.

ITHACA, N. Y.—We are informed that proposed $75,000 bond issue would be used for work now under way by day labor for new wells and extensions of collector mains of artesian wells. We are also informed that surveys were completed this summer and plans are now under way by C. C. Vermeule, Consulting Engr., 203 Broadway, New York, for construction next season of a gravity system. Work is now under way by day labor, repairing 24-in. pipe line wrecked by flood last June. F. L. Getman is Engr. in charge and Supt.

LOCKPORT, N. Y.—Marcus A. Ruthenberg has submitted amended estimate to city for supplying it with water. He proposes to deliver water from Emerald Channel in Niagara River at 5 cts. per 1,000 gallons. A proposition has been made by American Pipe Co. to supply water at 6 cts. per 1,000 gallons. According to Mr. Ruthenberg's proposition he proposes to build pipe line, necessary pumping stations, filtration plants, etc.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Nov. 22, for furnishing, delivering and laying high pressure fire service mains in the Southern District, the Middle District and the Northern District. The security required for the entire work is $300,000.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until 2 p. m., Nov. 8, for constructing two additional filter beds, with all their appurtenances complete, near the Hempstead storage reservoir, Hempstead, Long Island. Bids are asked until 2 p. m., Nov. 8, for furnishing, delivering and laying water mains in Columbus and Ninth Ave., in 62d St., in Central Park West and in Central Park. The time allowed to complete this last piece of work will be 300 working days.

NEW YORK, N. Y.—Following bids were received Oct. 25 by John T. Oakley, Comr. Water Supply, Gas and Electricity, for (1) furnishing, constructing and installing five electrically driven pumps, with all appliances complete, for high pressure fire service pumping station to be erected at Gansevoort Ave. and West St., Manhattan Borough, and (2) furnishing, constructing and installing five electrically-driven pumps, with all appliances complete, for high pressure fire service, in pumping station to be erected at Oliver and South Sts., Manhattan Borough: Allis-Chalmers Co., Milwaukee, Wis., (1) $119,635, (2) $119,635; D'Olier Engineering Co., 76 Cortlandt St., New York, (1) $1[illegible],496, (2)

$128,570; Camden Iron Works, Camden, N. J., (1) $119,848; (2) $119,848; Johnston Livingston, Jr., Co., 113 East 22d St., New York, (1) $124,957; (2) $124,957. The work includes 5,000 cu. yds. excavation, 700 cu. yds. concrete, 8,000 ft. piles, and 60,000 lbs. iron for flooring.

ORANGE, N. J.—Bids were opened Oct. 23 by Committee on Water for constructing new distributing system; the three lowest bidders are stated to be as follows: Antonio Costa, Orange, $187,407; Thomas E. Vermilyea, New York, $204,635; Ludwig Batt, South Orange, $218,007. Fred. T. Crane is Cy. Engr.

ALLENTOWN, N. J.—Borough has voted in favor of installing water-works and was to hold another election to vote on issuing $12,000 of bonds for that purpose.

BELVIDERE, N. J.—Syndicate is reported to be negotiating for purchase of water rights near this place, with intention of piping water for home use and power to towns along the Blue Mountains. Among those interested are stated to be Milton Flory, Bangor, Pa.; Wm. Gray, East Bangor, Pa., and J. S. Moyer, Bethlehem, Pa.

HARFORD, PA.—Local reports state that efforts are being made to form a water company.

FRACKVILLE, PA.—Local water plant has been sold to outside parties; the new company will be known as the Mountain City Water Co. Five miles of pipe has been ordered and will be laid this fall. A new storage reservoir of 500,000 gallons capacity will also be erected.

NESCOPECK, PA.—Franchise for water-works has been granted to a company, in which E. B. Byington and Emory P Day, of Allentown, Pa., are interested. It is said that preliminary work will be done this fall.

STOYSTOWN, PA.—Franchise for installing water-works here has been granted to company.

WASHINGTON, D. C.—Isthmian Canal Commission has awarded contract for water towers and tanks (bids opened Oct. 20) to R. C. HORTON, proprietor Chicago Bridge & Iron Works, at the following bid: Steel water tank, 500,000 gallons, $9,950; steel water tower and tank, 400,000 gallons, $22,700; steel water tower and tank, 50,000 gallons, $3,400.

CHATHAM, VA.—City votes to issue $17,500 of bonds, part of which is for increasing water supply.

NORFOLK, VA.—Bids are asked by Quartermaster, U. S. Marine Corps, Washington, D. C., until noon, Nov. 10, for construction at Marine Barracks, Norfolk, of a water system, including rain water cistern, pumps, fire system, drainage system, connections with local water service, etc.

RICHMOND, VA.—Bids were opened Oct. 16 (readvertisement) by Chas. E. Bolling, Supt. W.-W., for construction of a reinforced concrete conduit. The Committee on Water has recommended that the contract be awarded to the Crouse Construction Co., Perth Amboy, N. J., for $54,430. See under Contract Prices.

PARKERSBURG, W. VA.—Election will be held soon to vote on bond issue for construction of water-works. W. A. Elletson is Pres. Bd. Affairs; G. L. McKibben, Van Wert, O., is said to be Engr.

MILLEDGEVILLE, GA.—Bids are asked by Trustees Georgia State Sanitarium until 10 o'clock, Nov. 15, for the construction of a 1,000,000-gallon water-works and filtration plant. The work is subdivided in various parts, as follows, any one of which or all of which may be bid on: Brickwork and woodwork of buildings, boiler work, pumping machinery, intake and section wells, steam piping, approximately 1,000 tons; cast-iron water mains, filtration plant, etc. T. H. De Saussure, Milledgeville, is Engr.

MONTICELLO, GA.—Bids are asked by W. J. Phillips, Town Secy., until noon, Nov. 7, for purchase of $30,000 water and light bonds.

COLUMBUS, GA.—Water Commissioners have held meeting to consider selection of source of supply for water-works, which city is to build in near future. L. H. Chappell is Mayor.

BRIGHTON, ALA.—Bessemer Water-Works Co., Bessemer, Ala., according to reports, is to extend its water system to this city at a cost of $8,000.

GUNTERSVILLE, ALA.—Water-works and electric light plant are to be installed here, according to reports.

NEW ORLEANS, LA.—Contract for drilling an artesian well, 800 ft. deep, at the naval station, New Orleans, has been awarded to A. B. BLAKEMORE, New Orleans, for $2,490. Bids were opened Oct. 20, at the Bureau of Yards and Docks, Washington, D. C.

MT. STERLING, KY.—The pumping station of the Mt. Sterling water-works at Howard's Creek was burned Oct. 24, entailing a loss of $25,000.

CINCINNATI, O.—Water-Works Commissioners are reported to have decided to award the contract for the construction of filters, coagulating basins and clear water reservoir, with pipe line, valve chambers and miscellaneous work in connection therewith, bids for which were received some time ago, to F. H. KIRCHNER CONSTRUCTION CO., Cincinnati, O., for $487,566.

MAGNOLIA, O.—Village votes Nov. 7 on issuing $12,000 of water-works bonds.

ST. MARY'S-OF-THE-WOODS, IND.—We are advised that contracts for water-works extensions at this place have been awarded as follows: 100,000-gallon steel tower and tank, CHICAGO BRIDGE & IRON CO.; two motor generator sets and two motors, NORTHERN ELECTRIC CO.; two triplex pumps, HENION & HUBBELL, Chicago; one underwriters' fire pump, FAIRBANKS, MORSE & CO., Chicago; cast-iron pipe and specials, A. M. OZBURN, Chicago; wrought-iron pipe and fittings, gate valves, check valves, etc., to KINSEY & MAHLER CO., Peoria, Ill. Dabney H. Maury, Peoria, Ill., was Engr.

DECATUR, IND.—Bids are asked by Common Council until 7 p. m., Nov. 7, for constructing extension of water main. Jack McFeeley, Cy. Clk.

GRAND RAPIDS, MICH.—Board Public Works is stated to have decided to reject all bids for the new south end stand-pipe. New proposals will be taken early next year, it is said. L. W. Anderson is Cy. Engr.

ARLINGTON HEIGHTS, ILL.—We are advised that all bids received for extending village water mains were rejected. It was proposed to extend water system under a new law which went into effect July 1, but as there has been no Supreme Court decision on the validity of this law, trouble was experienced in disposing of the bonds for the improvement. As a consequence the matter was dropped and will go under the special assessment system. Henry C. Klehm is Pres. Bd. Trus.

STATE CENTER, IA.—Contract for erecting steel tank for town water system has been let to DES MOINES BRIDGE & IRON CO., for $2,135.

FOLEY, MINN.—Estimates have been made setting cost of water-works and electric plant for this place at $13,144.

BURLINGTON, KAN.—City has purchased plant, franchise, etc., of Burlington Water-Works Co. It is proposed to extend and otherwise improve the plant.

GLENDIVE, MONT.—Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York, for construction of about 33 miles of main canal and about 74 miles of branches and laterals for Fort Buford Irrigation Project. Bids are asked until Nov. 15, as advertised in Engineering News.

BELLE FOURCHE, S. DAK.—Following bids were opened Oct. 26 by U. S. Reclamation Service for (1) construction of Belle Fourche Dam, (2) construction of first division of North Canal and (3) construction of first division of South Canal; Raymond F. Walter, Engr. in charge: Orman & Crook, Pueblo, Colo., (1) $879,184, (2) $71,130, (3) $53,005; Widell-Finley Co., Mankato, Minn., (1) $898,892, (2) $77,635, (3) $59,215; Callahan Bros. & Katz, Omaha, Neb., (1) $962,587, (2) $103,520, (3) $75,190; Empire Engineering Co., by L. W. Bates, New York, (1) $967,436, (2) $76,517, (3) $56,021. See under Contract Prices.

ENCAMPMENT, WYO.—The North Platte & Encampment Canal Co. has been organized here, with E. H. Power, George M. Hohl and C. L. Hinkle as Trustees, and will begin construction of an irrigating ditch for the reclamation of over 27,000 acres of land. Surveys are under way.

DALLAS, TEX.—It is probable that city will purchase Oak Cliff water plant and connect it with the municipal system. J. M. Bassett is Ch. Engr., W. Dept.

FORT WORTH, TEX.—Arlington Heights Water Co., of Fort Worth and Arlington Heights, capitalized at $50,000, has been incorporated. L. C. Cole, G. E. Montgomery, Tom D. Cole, Fort Worth; W. P. Engle, Defiance, O.; A. V. Baumann, Sandusky, O., are interested.

PITTSBURG, TEX.—City will install water-works. J. W. Hill is Mayor.

DAVIS, IND. T.—A $25,000 bond issue for water-works was voted on Oct. 27.

GREELEY, COLO.—Citizens of Bijou Irrigation District have voted $750,000 for purchase of ditch belonging to D. A. Camfield and Senator James W. McCreery, of Greeley, and S. H. Shields and Josiah Work, of Fort Morgan, and also the New Empire reservoir site and its appropriations, belonging to Charles F. Tew, John T. Warren and L. L. Stimson, of Greeley. The contract requires that the Bijou ditch shall be enlarged and also provides for the construction of the New Empire reservoir, which will have a capacity of about 2,000,000,000 cu. ft. Work is to commence on the reservoir by Jan. 1.

FORT COLLINS, COLO.—Advices from this city state that St. Louis and Colorado capitalists are considering a project for bringing water from the Laramie River to the Poudre Valley, the work to include the construction of large storage reservoir, a three mile tunnel through the divide below Poudre Falls, and the construction of a ditch parallel to the Larimer County ditch. An extension ditch would be built from Cobb Lake to Crow Creek, in which vicinity the water would be applied to the land. Among those interested are said to be Louis F. Swift, Peter Jansen, Lincoln, Neb.; and Judge Ramey, of St. Joseph, Mo. S. W. Fox, Consult. Engr., Kansas City Life Bldg., Kansas City, Mo., is said to have been making investigations as to the feasibility of the project.

FORT WALLA WALLA, WASH.—Bids are asked until 2 p. m., Nov. 9, for installing water mains, etc., at this post. Noble H. Creager, Q. M.

VANCOUVER BARRACKS, WASH.—Bids are asked by Quartermaster, Vancouver Barracks, until 11 a. m., Nov. 22, for extension of water supply and sewerage systems at this post.

EUGENE, ORE.—John A. Wright, of Leaburg, Ore., has filed on 10,000 cu. ins. of water under a 6-in. pressure from Wright Creek, for domestic and irrigation purposes.

ST. JOHNS, ORE.—Eastern capitalist has made offer to council to build water system for the city. System would cost about $100,000, and would be of sufficient capacity to supply population of 15,000.

PILOT ROCK, ORE.—Chas. Berkley, Pendleton, Ore., is reported to have made surveys and estimates for a water system for this city. Supply would be from well, and gasolene pumping engine would be used.

ST. JOHN'S, ORE.—Council has created a Board of Public Works with power to contract for the erection of municipal water-works. W. T. Vaughn is Mayor.

SAN DIEGO, CAL.—Council has adopted the contract submitted by the Southern Cal. Mountain Water Co. for supplying the city with water for the next ten years. The company agrees to build a 20-mile conduit to bring water from its system to the distributing system owned by the city.

PALO ALTO, CAL.—Local Board of Trade has asked City Trustees to issue $90,000 of bonds for improving water-works.

CHINO, CAL.—New company is to be formed to take over local water system, and to develop an irrigation system for irrigating 3,000 acres of land. Wells will be sunk and a large reservoir constructed. E. J. Marshall, of Chino, Cal., Pres. of Chino Land & Water Co., is interested.

PORTERVILLE, CAL.—C. A. Moore, Santa Clara, Cal., is to make estimate of cost of municipal water-works for this city.

ANAHEIM, CAL.—A $23,000 bond issue for water-works purposes will be voted on Nov. 11. Edw. B. Merritt is Cy. Clk.

FRESNO, CAL.—Articles of incorporation have been filed whereby the Fresno Water Co. will be resolved into the Fresno City Water Co. Capital stock will be increased by $100,000 and the sum, it is said, will be used for improvements. It is proposed to expend about $20,000 before Jan. 1. A. G. Wishon, W. E. Durfey and Joseph H. Newlin are Directors.

SAN FRANCISCO, CAL.—Monterey County Water-Works Co., capitalized at $1,000,000, has been incorporated by Chas. E. Green, H. G. Platt, A. D. Shepard, J. E. Polhemus and Geo. E. Crothers, all of San Francisco.

LINCOLN, CAL.—Bids are asked by Trustees, J. Schuler, Town Clk., until 8 p. m., Nov. 14, for constructing and laying 2,600 ft. 11-in. U. S. standard gage wrought-iron riveted pipe.

SAN FRANCISCO, CAL.—Bids are asked at office of U. S. Reclamation Service, Merchants' Exchange Bldg., San Francisco, until 2 p. m., Dec. 29, for the construction of about nine miles of main canal, near Klamath Falls, Ore., with headworks, sluice gates, bridges and other appurtenances involving about 600,000 cu. yds. of excavation, 3,100 lin. ft. concrete lined tunnel, and 4,000 cu. yds. concrete masonry, exclusive of tunnel lining. (Advertised, Engineering News.)

PHOENIX, ARIZ.—Bids are asked by C. F. Larrabee, Acting Comr., Dept. of Interior, Office of Indian Affairs, Washington, D. C., until 2 p. m., Nov. 22, for furnishing two 125-HP. water tube boilers, vacuum pump, 4,830 ft. of pipe, 740 ft. of pipe covering, 832 ft. of radiation, besides a quantity of valves, tees, joints, flanges, etc.

SALT LAKE CITY, UTAH.—Following applications for water appropriations have been filed: J. L. Bennett, Grand Junction, 2 second ft. from the Green River in Wasatch County, length of diverting canal 9,500 ft.; Alma Lister, of Vernal, for 2 second ft. from the Green River in Uintah County, length of diverting canal 26,400 ft.; J. B. Hill, 4 second ft. from the Green River in Wasatch County, length of diverting canal 10,000 ft.; H. J. Houston, of Colton, 3 second ft. from Green River in Wasatch County, with diverting channel 7,000 ft. long; Daly-West Mining Co., of Park City, 4 second ft. from the Provo watershed in Wasatch County, diverting channel 3,000 ft.; Frank Orser, of Vernal, and 18 others, for 24 second ft. from the Green River in Uintah County, with diverting channel 52,800 ft.; Edward W. Lloyd, of Vernal, 8 second ft. from the Green River in Wasatch County, with diverting channel 35 miles long; Harley Mowrey and C. S. Morrison, of Vernal, 2 second ft. from Green River in Uintah County, length of diverting canal one mile.

SALT LAKE CITY, UTAH.—Settlers of the Blue Bench lands, Uintah Reservation, have perfected an organization to be incorporated under the name of the Blue Bench Co-operative Water Co., for the construction of a canal to irrigate about 20,000 acres. Irwin E. Pratt, Salt Lake City, Secy., has filed on 200 second ft. of water to be diverted from Rock Creek. H. D. Page has just compiled a survey for the proposed canal, which is to be 15 miles long; the scheme also includes a plan to develop 680 HP.

SALT LAKE CITY, UTAH.—Utah Construction Co., Salt Lake City and Ogden, Utah, is to build a 40 mile pipe line to furnish water to the many construction camps along the Western Pacific Ry., which is now being built. Three pumping stations will have to be installed. A. Amundsen, Grantsville, Utah, is Supt. of the work.

LEWISTON, IDAHO.—Contract for constructing irrigation system of Lewiston-Sweetwater Irrigation Co. has been let to NAYLOR & NORLIN, Lewiston, for about $40,000.

KAMIAH, IDAHO.—Gravity water system is to be installed here.

WESTMOUNT, QUE.—Montreal Water & Power Co., Montreal, Que., in return for an extension of franchise and other privileges, has offered to install in a new position a new steel intake pipe at a cost of $125,000.

LONDON, ONT.—Water Commissioners have asked Council for $251,000 to be expended for water-works extensions.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

FORT WILLIAMS, ME.—See under Water-Works.

BOSTON, MASS.—Bids were opened Oct. 26 at City Hall, for building Sec. 5, Talbot Ave. high level sewer, three lowest bidders being as follows: P. W. Hill, $14,415; W. P. Barry, $14,312; F. A. Foster & Co., 34 School St., Boston, $13,581. Bids were opened Oct. 27 for building Sec. 6 of Talbot Ave. high level sewer, three lowest bidders being as follows: P. W. Hill, 141 W. Canton St., Boston, Mass., $8,161; F. A. Foster Co., $9,987; McBride & Co., $9,567.

MILFORD, N. Y.—Village is considering laying sewers in East and West Main Sts.

FAR ROCKAWAY, N. Y.—Bids will be asked in about two weeks for a sewer system at this place. Armstrong & Joyner, Engrs., 1133 Broadway, New York.

NEWARK, N. Y.—Plans are being made for seven miles of sewers which are to be laid during coming year provided taxpayers agree to the scheme. C. P. H. Vary, R. A. S. Bloomer and John B. McDermott are Members of Municipal Board.

CHESTER, PA.—Bids are asked by James R. Bagshaw, Chn. Sewer Com., until 7.30 p. m., Nov. 6, for constructing an 18-in. terra cotta pipe sewer in Eighth St.

WILKINSBURG, PA.—Frease & Sperling, Boro. Engrs., have estimated the cost of lowering streets and sewers, made necessary by the construction of subways under Pennsylvania R. R. tracks at $96,000.

WYNNEWOOD, PA.—Referring to project of Wynnewood Manor Co. for sewage disposal plant, we are informed that it is hoped to get the Merion sewers extended. If this cannot be done a disposal plant will be put in. Pugh & Hubbard, 1334 Real Estate Trust Bldg., Philadelphia, Pa., are Engrs.

PITTSBURG, PA.—It is probable that an appropriation of $150,000 to $200,000 will be asked in the February bills for construction of new low grade sewers along Liberty Ave., from Water St. to 10th St.

READING, PA.—O. M. Weand was only bidder Oct. 12 for making alterations to sewage pumping station and disposal plant, he submitting the following propositions: To increase capacity of plant as demanded by city for $73,000; or to make needed changes and contractor operate plant for five years at an annual payment by the city of $46,000. Elmer H. Beard is Cy. Engr.

WILLIAMSPORT, PA.—Contract for constructing Park Ave. storm sewer was awarded to CORYELL CONSTRUCTION CO., Williamsport, for about $28,000. Bids were opened Oct. 12, and were given under Contract Prices in our issue of Oct. 26.

WILMINGTON, DEL.—Bids will be wanted about Jan. 15 for a sewer system in Carcroft, a suburb of Wilmington. Armstrong & Joyner, Engrs., 1133 Broadway, New York.

WASHINGTON, D. C.—Contract for constructing terra cotta pipe sewers, catch-basins and manholes in the Washington approach to the Highway Bridge, has been awarded to MARTIN McNAMARA, Washington, for $2,844. Bids were opened Oct. 20.

LINDEN, MD.—Bids will be asked early next year for a sewer system at this place. Armstrong & Joyner, Engrs., 1133 Broadway, New York.

MILLEDGEVILLE, GA.—Election will be held Nov. 9 to vote on issuing $20,000 of bonds for constructing sewer system. C. L. Moore is Cy. Clk.

GEORGETOWN, KY.—John W. Alvord, Chicago, Ill., is Engr., for proposed sewer system for this city. Bids for construction will probably not be asked until next spring. John B. Graves purchased the bonds issued for the construction of the sewer system, and this gave rise to the report that he had been awarded the contract for the work. J. H. Keller is Mayor.

ASHLAND, KY.—Bids were received Oct. 18 by this city for constructing 26th St. brick, concrete and tile sewer, the contracts being awarded to P. MORIARITY, JR., for $21,787. Work includes a main sewer, 54-ins. to 63 ins. diameter, 2,800 ft. long, and 5,000 ft. of 18-in. to 33-in. laterals.

CINCINNATI, O.—J. D. Harris, Asst. Clk. Bd. Pub. Serv., writes us that following contracts for sewer work have been awarded: McCARTHY BROS., 1231 Spring St., Cincinnati, Sewer in Div. 16, $8,304; THOS. P. STRACK, 704 E. McWilliam St., sewer in Bloody or Ross Run, $171,355.

HAMILTON, O.—Council has ordered construction of storm water and sanitary sewers in several streets at a total cost of about $5,900.

AKRON, O.—We are advised that work of constructing 4 ft. surface water sewer in Voris, Miami and Thornton Sts., will be readvertised. Bids were opened Oct. 25. Chas. H. Watters is Secy. Bd. Pub. Serv.

RAVENA, O.—Williams & Whitman, 17 Battery Pl., New York, have been appointed engineers for a sewer system for this place. Est. cost is $60,000.

CHAGRIN FALLS, O.—We are informed that at election Oct. 23, matter of issuing bonds for constructing sewers failed to carry. F. P. Shumacher is Mayor.

ST. BERNARD, O.—Bids are asked by George Meyer, Village Clk., until noon Nov. 8 for material and labor for construction of sewers in Church St., private right of way, Meadow Ave., Gower Ave. and George St. J. A. Stewart, Village Engr., Traction Bldg., Cincinnati, O. Post office is Station 17, Cincinnati, O.

CRYSTAL FALLS, MICH.—City is planning to construct sewers. Robert Munns is Cy. Clk.

GRAND RAPIDS, MICH.—We are advised that projected south end sewer, est. cost of which is $18,500, has been ordered and the contract will be let this winter. It is probable that a very large amount of paving work and sewer work will be done the coming year. L. W. Anderson is Cy. Engr.

MIDLAND, MICH.—Council has awarded contract for constructing sewer system to PHOENIX CONSTRUCTION CO., Saginaw, Mich., for $11,560.

ELGIN, ILL.—City Engineer is stated to be preparing plans for sewers in 4th Ward. Est. cost will be about $5,000 and about a mile of sewer pipe will be laid.

WAUKEGAN, ILL.—We are informed that plans are being made for sewer systems for the North and West sides; no ordinance has been passed. Sewers will be from 15-in. to 48-in. internal diameter, larger sizes being constructed of concrete. M. R. Miller, Supt. Pub. Wks., is Des. Engr., and official in charge.

GENEVA, ILL.—Orville Peckham and others are said to be having surveys made for about 4,000 ft. of sewers. C. A. Prout, Elgin, Ill., is Engr.

MANITOWOC, WIS. — Contract for constructing sewers here was awarded, Oct. 19, to WALTER O. BAHR, Manitowoc, for about $40,000.

CLINTON, IA.—Following bids were received Oct. 25 by City Council for constructing about four miles brick and concrete sewers: Chas. M. Porter, Chicago, Ill., $168,-915; People's Construction Co., Davenport, Ia., $169,492; M. Ford, Cedar Rapids, Ia., $169,744; Green & Sons Co., Appleton, Wis., $174,266; Dailey & Brown, Jacksonville, Ill., $176,884. Chas. P. Chase is Cy. Engr.

DES MOINES, IA.—Bids are asked by Board Public Works until 11 a. m., Nov. 16, for constructing a 12-in. vitrified clay pipe sewer in W. 11th St.

FAIRMONT, MINN.—All bids received for constructing main sewers, septic tank, filter beds, etc., for this village are stated to have been rejected. It is probable that nothing further will be done until spring. Lowest bid was said to amount to about $17,000.

WINFIELD, KAN.—We are informed that matter of improving sewer system is under consideration, but nothing definite has been decided. F. O. Yeager is Cy. Clk.

ALLIANCE, NEB.—The Mayor writes us that a survey has been begun by Blake & Lawrence, 202 Houser Bldg., St. Louis, Mo., for street grades and a sewer system. The work will be submitted to the council in about 30 days, and following the adoption of plans and voting of bonds, bids for construction will be taken.

ARKADELPHIA, ARK.—We are advised that construction of sewer system is merely under discussion. No engineer has been selected. R. P. Phillips is Mayor.

BONHAM, TEX.—Local parties contemplate building sewer system for this place.

VANCOUVER BARRACKS, WASH.—See under Water-Works.

STOCKTON, CAL.—We are informed that a bonding commission is at present meeting every week for the discussion of the necessities of the city and the advisability of bonding for extension of main sewers, septic tanks, disposal of sewerage and storm water sewers. The matter is not far enough advanced for any estimate of cost as yet. R. C. Tumelty is Cy. Engr.

BURLINGAME, CAL.—Election is to be held here Nov. 14 to vote on forming El Cerrito sanitary district.

PACIFIC GROVE, CAL.—Another election may be called to vote on bonding for installing storm water sewers.

LARKSPUR, CAL.—Sanitary District No. 4 of Marin County, embracing Larkspur and Escalle, has been formed. As soon as Sanitary Trustees obtain estimates of cost of sewer system, a bond election will be held. F. O. Heydenfelt and Frank Craig are trustees.

OCEANPARK, CAL.—Election may be held to vote $50,000 of bonds for improvements, among which is a sewer system.

LINCOLN, CAL.—Town Trustees are considering construction of sewer system.

OAKLAND, CAL.—Council has directed City Engineer to prepare plans and specifications for a complete sewer system for the city. The plan is to call an election to issue bonds for approximately $350,000 for sewer construction.

BISBEE, ARIZ.—Council has adopted plans of F. H. Olmstead, Engr., Los Angeles, Cal., for a sewer system. Election will be held to vote bond issue for its construction, est. cost of which is $65,000.

SALT LAKE CITY, UTAH.—Bids are asked by Board Public Works, E. A. Wall, Chn., until 3 p. m., Nov. 9, for constructing brick and concrete conduit to replace canal between Fifth South and South Temple Sts. Work is as follows: Excavating and backfilling, 2,000 cu. yds., removing wooden flume, 2,400 lin. ft., brick conduit, 2,000 lin. ft., concrete conduit, 1,000 lin. ft., 8-in. pipe, 1,000 lin. ft., manholes 6. Geo. W. Riter, Cy. Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—We are informed that bids will be received about April, 1906, for garbage collection contract.

NEW HAVEN, CONN.—We are advised that contracts for garbage disposal are awarded annually in January, for year commencing February 1. Ward Bailey is Clk. Bd. Health.

CORY, PA.—G. K. Carl, Health Officer, informs us that the city has no garbage plant, but it is expected that the matter will be taken up April 1. At present the garbage is collected and hauled from the city.

LEXINGTON, KY.—City is now arranging for a new garbage crematory, we are informed. J. C. Carnch is Pres. Bd. Health.

YOUNGSTOWN, O.—We are advised that a council and Board of Health joint committee is now drafting a garbage ordinance. The details are not yet made public.

TOLEDO, O.—We are informed that the DIXON GARBAGE CREMATORY CO., Spitzer Bldg., Toledo, has contract for two 20-ton crematories, with skeleton steel buildings and steel chimneys for the city of Guayaquil, Ecuador. F. K. Rhines is Ch. Engr.

BARBERTON, O.—City has purchased a site for an incinerating plant or disposal plant.

CHICAGO, ILL.—Richard E. Fox, Supt. of Street Cleaning, J. M. Patterson, Comr. Public Works, and William Hard, have returned from a trip of investigation of garbage plants in eastern cities. They recommend the construction of a municipal garbage reduction plant to cost $250,000. Also purchase of 500 horses, 200 wagons, ten river barges and erection of eight stables. Total cost, $800,000.

ROCKFORD, ILL.—A. M. Trenholm, Pres. Rockford Rendering Works, has submitted offer to City Council to dispose of city garbage.

KANSAS CITY, MO.—If Council decides to establish a De Carle incinerating plant a bond issue of $100,000 will be necessary. Dr. R. M. Cross is City Chemist.

PALO ALTO, CAL.—Robert English will build a garbage crematory on Bay View ranch at this place. It will cost $2,500.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, N. Y.—Bids are asked by Department Public Works until 11 a. m., Nov. 3 for paving Lord, Scott and Alabama Sts. Francis G. Ward, Comr.

SCHENECTADY, N. Y.—The contracts for grading, curbing and paving portions of South Ferry, Fuller and South Centre Sts. have been awarded to the SCHENECTADY CONTRACTING CO.

BUFFALO, N. Y.—Commissioner Ward has received bids on the contract for repaving Tonowanda St. and increasing its width from 30 to 36 ft. The low bidder was H. P. Burgard, at $21,250.

EAST HAMPTON, N. Y.—This town has voted to raise $100,000 to be used for road improvements. E. J. Edwards is Town Clk.

PASSAIC, N. J.—Bids were asked by J. Van Brunt, Twp. Clk., until 8 p. m., Nov. 8, for laying flag sidewalk, curb and gutter on Crooks Ave., in Acquackanonk Township.

VERONA, N. J.—Bids are asked by Township Clerk until Nov. 8 for constructing flagstone sidewalks and all necessary crosswalks on portions of Bloomfield Ave. Bids to be submitted separately on crosswalks and sidewalks. F. W. Crane, Twp. Engr.

WEST HOBOKEN, N. J.—Sebastian Maulbeck, Town Surv., announces that bids are about to be asked for paving Traphagen St. with Belgian block, at a cost of $1,400, and for paving Stevens St. with brick at a cost of $7,000.

CRANFORD, N. J.—The CLARK STONE CO., of Elizabeth, was awarded the contract to lay sidewalks on Centennia Ave. by the Township Committee.

SHAMOKIN, PA.—Bids will be asked for the paving of that section of Shamokin St., extending from Shamokin Creek south to borough line, with vitrified brick. T. C. Roberts is Secy. Town Council.

LINDEN, MD.—Bids will be called for about the first of next year for paving and grading here. Address Armstrong & Joyner, Land. Archs., 1133 Broadway, New York City.

CARRCROFT, DEL.—Armstrong & Joyner, Landscape Archs., 1133 Broadway, New York City, will ask for bids about Jan. 15 for paving and grading in Carrcroft.

WASHINGTON, D. C.—Bids were opened by the District Commissioners for the paving of sidewalks. Bids were received as follows: Cranford Paving Co., $99,735; Brennan Paving Co., $109,500; Rudolph & Blome, $104,850; Drew & Sheehan, $105,050. The contractors submit their bids upon the estimate that 100,000 sq. yds. of sidewalks will be paved.

ENSLEY, ALA.—City is considering the paving of sidewalks on 20th, 21st and 22d Sts. Address the Mayor.

INDIANOLA, MISS. — RUDOLPH S. BLOOME & CO., of Chicago, Ill., have contract, at 14¾ cts. a sq. ft., for laying four miles of cement sidewalk.

DAYTON, TENN.—An election will be held here Nov. 14 to decide the question of issuing $15,000 of bonds for the construction of public roads. Address the County Clerk.

OWENSBORO, KY.—An election will be held here Nov. 7 to decide the question of issuing $250,000 in bonds for the purpose of constructing good roads in this county.

BOWLING GREEN, O.—We are informed that bids were opened Oct. 23 by County Commissioners for macadamizing of P. C. Holles Road, 13,103 ft., and S. B. Hengsteller Road, 2,700 ft., and the contracts awarded to J. G. TRESSELL, of Ada, O., and GEO. C. MERCER, of Bowling Green, at $11,360, and $2,966, respectively. E. L. Spofford, County Engr.

CINCINNATI, O.—We are advised that the following paving contracts have been let by the Board Public Service as follows: Pearl St., bitulithic, KIRCHNER CONSTRUCTION CO., $16,738; Beaver Ave., asphalt, BARBER ASPHALT PAVING CO., Traction Bldg., $8,-017; Monastery St., bowlders, WM. FOGARTY, 2550 Burnet Ave., $1,458; Warsaw Ave., bitulithic, HENKEL & SULLIVAN, Mercantile Library Bldg., $73,232; Halpin alley, granite, JAS. AGNESS, Hoffner St., $2,057.

AKRON, O.—An ordinance has been passed by City Council authorizing the paving of Lods St. Several months ago a similar ordinance was passed but the paving was held up by an injunction. J. W. Payne is Cy. Engr.

A street to connect Crosby and West Market Sts., between Valley and Maple Sts., is being considered by Street and Finance Committees of City Council.

LIMA, O.—The Board Public Service has awarded to LOMISON & MARLETT the contract for grading of Jameson and Lincoln Aves.

AKRON, O.—The City Council has decided to extend Wilson St., from Johnston north to Bacon St.

ZANESVILLE, O.—The contract for paving Fountain Square, from North Seventh to Underwood St., has been let to J. E. BROWN by the Board Public Service.

TOLEDO, O.—The KERLIN BROTHERS CO. was awarded a contract for grading and paving of Lincoln Ave. between Detroit Ave. and Hawthorne St. with Logan brick, on broken stone foundation, at an approximate cost of $8,202. The work will be done this fall if possible.

MARYSVILLE, O.—City Council has awarded the contract for paving with asphalt of West Fourth St., to the BARBER ASPHALT PAVING CO., of Cleveland, at its bid of $1.75 a sq. yd., exclusive of curbing.

YOUNGSTOWN, O.—This city contemplates improving sundry streets after Jan. 1. F. M. Lillie is Cy. Engr.

INDIANAPOLIS, IND.—The Board Public Works has passed resolutions providing for a large amount of grading and paving of streets and also for the laying of several miles of cement sidewalk. B. J. T. Jeup is Cy. Engr.

CORYDON, IND.—Bids are asked by County Commissioners until Nov. 6 for construction of a free gravel road in Spencer Township. Frank E. Watson, County Audr.

MOORESVILLE, IND.—Bids will be received by Board of Trustees until Nov. 7 for construction of 2½ miles of concrete sidewalks.

ENGLISH, IND.—Bids are asked by County Commissioners until 2 p. m., Nov. 6 for construction of a macadam road in Jenningstown and improving street in Leavenworth.

BIG RAPIDS, MICH.—L. W. June, Cy. Engr., informs us that about 21,976 sq. yds. of macadam paving will be done next year. Est. cost, $20,000.

RED JACKET, MICH.—The village Council will ask G. L. Claussen, Engr., to prepare estimates for paving all unpaved streets of the town next season and for laying additional sidewalks. Special election will be held in December to decide on the improvements.

BATAVIA, ILL.—This city contemplates paving with brick seven or eight blocks on Wilson St. C. C. Collins is Mayor.

LINCOLN, ILL.—The Board Local Improvements has planned to pave a number of streets in the city next year.

SPRINGFIELD, ILL.—An ordinance has been presented to City Council providing for the paving of Clay St. Frank Hamilton is Cy. Engr.

WINFIELD, KAN.—We are informed that the city will macadamize about four or five miles of street. The exact date of letting has not yet been decided upon. J. V. Yeager, Cy. Clk.

ATCHISON, KAN.—Fred. Giddings, Cy. Engr., writes us that the Council has passed a resolution declaring it necessary to pave Q and R Sts. If there is not a sufficient remonstrance by the property owners, specifications will be prepared and City Clerk will advertise for proposals.

WICHITA, KAN.—Bids are asked by R. N. Dorr, Cy. Clk., until 12 m., Nov. 6, for paving Water St. with vitrified brick, requiring approximately the following: 278 lin. ft. cement curb; 730 cu. yds. earth excavation; 1,825 sq. yds. brick paving. H. J. Harding, Cy. Engr.

WASHBURN, N. DAK.—O. B. Wing, County Audr., writes us that all bids for constructing grades were rejected at last meeting of County Board and that new bids will be advertised for next spring. O. C. S. Salem, Engr. (Previously noted.)

COLUMBIA, MO.—No bids were received for constructing granitoid sidewalks, and the city will do the work by day labor. E. E. Beasley is Cy. Clk.

JEFFERSON CITY, MO.—Proposed macadam paving is still before the City Council, under consideration. E. F. C. Harding, Cy. Engr., informs us that the work will probably not be advertised before next spring.

ST. LOUIS, MO.—The Board Public Improvements, at its meeting of Oct. 15, approved ordinances for a large amount of street improvements and laying of new sidewalks.

SEDALIA, MO.—This city contemplates paving at least 32 blocks with vitrified brick in the spring. Will require 2,000,000 brick. C. H. Zoll, Cy. Engr.

WEBB CITY, MO.—Sealed proposals will be received by W. E. Smith, Cy. Engr., until 5 p. m., Nov. 20 on the bringing to grade and graveling of Oronogo St., about 2,052 ft.

KIRKSVILLE, MO.—Stephen Hall, Cy. Engr., writes us that sealed proposals will be received until 12 m., Nov. 6 for about 9,000 sq. yds. of vitrified brick paving on cement concrete foundation, with cement concrete curbing. J. C. Carothers, Cy. Clk.

ARGENTA, ARK.—The ARGENTA CONCRETE CONSTRUCTION CO. has contract for building 25,000 sq. ft. of sidewalk and 4,900 ft. of curbing on West Fourth St.

LITTLE ROCK, ARK.—Eighteenth St. will be paved from Center, a distance of four blocks, at a cost of $10,000. Asphalt will probably be used. W. A. Plunkett is Secy., Bd. Comrs.

LITTLE ROCK, ARK.—E. A. Kingsley, Cy. Engr., informs us that bids will be asked for in about three weeks for 35,000 sq. yds. of paving, estimated to cost $80,000.

SHERMAN, TEX.—We are informed that R. K. Dabney, of Grand Prairie, Tex., and R. H. Fleming, of Ludlow, Ky., were the only bidders on the paving of portions of Houston, Crockett, Travis and Mulberry Sts., with brick. Est. cost, $33,500. The contract will probably be awarded at the next regular meeting of City Council Nov. 6. Chas. E. Haydon, Cy. Engr.

SEATTLE, WASH.—Bids are asked by Board Public Works until Nov. 4 for constructing concrete walks on East Queen Anne Driveway and other streets; est. cost, $25,900. Also for planking 15th Ave. West and other streets; est. cost, $4,850. R. H. Thomson, Cy. Engr.

PALO ALTO, CAL.—New specifications prepared by J. F. Byxbee, Jr., Cy. Engr., for the construction of sheet asphalt pavements in Palo Alto, were presented to Board of Trustees and approved.

MANUFACTURIN[illegible] PLANTS.

The names of parties a[illegible] contracts are printed in cap[illegible]

NEWPORT, VT.—It [illegible] decided to rebuild the L. P. Aubin [illegible] mill here.

BOSTON, MASS.—Fire [illegible] the manufactory of the New En[illegible] Bedding Co., and the sash and blind p[illegible] E. H. Ellins & Co.

LAWRENCE, MASS.—[illegible] Cullinane, Arch., Essex St., has dra[illegible] for bake shops for Jos. Fondi, at 95[illegible] St. Address architect.

ATHOL, MASS.—Daniel [illegible] York, owner of the recent[illegible] of New at Athol, has announced [illegible] silk mill rebuilding and continuing [illegible] attention of Athol. Contract for reb[illegible] business in awarded. A new and bi[illegible] has been and dye-house will be built [illegible] boiler room burned one. It is the inte[illegible] site of the of brick. [illegible] have it

WORCESTER, MASS.—W[illegible] begin at once on a five-story building [illegible] this city for Crompton-Knowles Loom W[illegible] and it is expected to have it ready [illegible] occupancy by Dec. 15. The new building [illegible] be used for the manufacture of looms [illegible] 500 HP. power plant will be installed [illegible] frontage of the shop will be 150 ft. a[illegible] depth 59 ft. Cost, $40,000.

BROOKLYN, N. Y.—J. H[illegible] REVES & BRO., 287 Fourth Ave., Manh[illegible] has been awarded the general contract [illegible] in addition to factory of Arabol Mfg. Co. [illegible] William St., Manhattan, to be erected [illegible] Nostrand Ave., Brooklyn. Brick, 2 and [illegible] stories, 50 × 150 ft. General contract [illegible] does everything. De Lemos & Cordes, Archs., 130 Fulton St., Manhattan.

NEW YORK, N. Y.—C. B. [illegible]ers, Arch., 1 Union Square, will take figures Nov. 15 on the new printing house to be erected at Park Ave. and 166th St., for Wm. Steiner Sons & Co., 116 East 14th St. Brick and stone, fireproof, 2 stories, 200 × 300 ft. W. S. Timmis, 150 Nassau St., is consulting engineer, and wants figures on engines, generators, boilers, motors, electric wiring and heating system.

ROCHESTER, N. Y.— Fire in the upper floors of five-story building at Griffith St. and South Ave., owned by Mrs. S. W. Hagaman, caused a loss of $20,000. The top floors were occupied by the Dennis Candy Mfg. Co. and the Genessee Tack Co.

JERSEY CITY, N. J.—Wm. Higginson, Arch., 13 Park Row, New York City, has completed plans for the E. R. Merrill Spring Co., 144 First St., Jersey City, for four-story building, 75 × 100 ft.

HARRISON, N. J.—Chas. P. Baldwin, Arch., 45 Clinton St., Newark, is preparing plans for Nairn Linoleum Co., Passaic Ave., Harrison, for a one-story addition, 55 × 75 ft., to its present plant. Cost, $15,000.

PATERSON, N. J.—Iron foundry of the Fred Barker Co., 58 Vine St., was destroyed by fire.

JERSEY CITY, N. J.—R. W. Sailer, Arch., 76 Montgomery St., is taking bids on a factory to be erected at Ninth and Brunswick Sts., for Kiernan Hughes Co., 47 Eighth St. Brick, mill construction, 4 stories, 75 × 100 ft.

BAYONNE, N. J.—J. Boyle & Co., 112 Duane City, New York City, have plans ready for figures for factory to be erected at Bayonne. Brick, mill construction, 3 stories, 80 × 220 ft.

GARFIELD, N. J.—Ground has been broken for new mill to be erected by the New Jersey Worsted Spinning Mill, care M. Bronson, of Garfield. J. F. Kelley, Post Office Bldg., Passaic, is Arch. The plant will consist of a main building, 1 story, 100 × 440 ft.; spinning building, 1 story, 227 × 330 ft.; power house, 1 story, 56 × 200 ft.; and storehouse, 3 stories, 56 × 228 ft., all of brick. J. W. FERGUSON, United Bank Bldg., Paterson, has the general contract, and wants figures on engines, boilers, motors, sprinkler system, electric wiring, plumbing, etc.

PHILADELPHIA, PA.—Jas. Bird & Co., 213 North 11th St., desire sub-bids for an addition to mill at 12th and Jackson Sts., for the Victoria Mills.

HUMMELSTOWN, PA.—Fire destroyed the new bi-product brick plant of the Hummelstown Brownstone Co., near here. Loss, $50,000.

WASHINGTON, D. C.—F. Bergner & Co., 308 West Pratt St., Baltimore, Md., have commissioned Architect J. E. Sperry, Builders' Exchange Bldg., Baltimore, to prepare plans for a three-story fireproof building, 150 × 216 ft., to be erected at Paca and Cross Sts., Washington. The company will manufacture fancy cases, albums, etc.

BALTIMORE, MD.—The Headington-Pfeil Furniture Mfg. Co. has been incorporated with $50,000 capital stock to manufacture furniture. Mottu & White, Archs., 328 North Charles St., have been commissioned to prepare plans and specifications for the different buildings, which are to be erected at Lakewood Ave. and Hudson St. A four-story factory, power house and a number of dry-kilns will be erected. The latest improved woodworking machinery will be installed.

The Baltimore Buggy Top Co., 1001 Argyle Ave., has purchased a site at Pennsylvania Ave. and George St., upon which to erect a four-story building, to cost about $12,000. The capacity of the plant will be doubled.

BALTIMORE, MD.—The Baltimore Vitrified Clay Co., Builders' Exchange Bldg., has awarded contract to JOS. I. COOK, 1813 North Mount St., for the construction of building at its plant at Westport.

A. J. Cordish, 1022 East Baltimore St., has awarded contract to NEW ENGLAND CONSTRUCTION CO., 1600 East Baltimore St., for the construction of two additional stories of factory building at 8 East St.

BROADWAY, VA.—The Frazel Sash & Door Co. will erect a factory building, 125 × 50 ft., engine-house, 25 × 50 ft., dry-kilns, etc. Cost, about $15,000.

FRANKLIN, VA.—The Parker Buggy Corporation, J. P. Knight, Pres., is enlarging present plant by the erection of three-story brick addition 50 × 100 ft. Cost, about $10,000.

MOOREFIELD, W. VA.—The United States Leather Co., which recently purchased the tannery at Moorefield, is preparing to spend $50,000 in improvements. The company is to install its own lighting plant and also to light the town of Moorefield.

GRAHAM, N. C.—According to the "Pink Sheet Daily Bulletin," of Chattanooga, Tenn., a $15,000 canning factory will be erected here. The Mayor can probably give information.

ROME, GA.—The Anchor Duck Mills, of Rome, have found it necessary to double the capacity of the plant, and over 20 acres of land have recently been purchased, on which the new factory will be located. The new mill will employ 300 persons, will have 14,000 spindles and turn out 10,000 pounds of cloth daily.

PITTS, GA.—P. G. McDonald, of Vienna, Ga., is interested in plans for establishing a cotton mill at Pitts, to cost $50,000. No details have been decided. Correspondence regarding machinery is invited.

MONTEZUMA, GA.—E. J. Wilson contemplates installing a 10-ton ice plant. Machinery has not been purchased.

ENSLEY, ALA.—Officials of the Tennessee Coal, Iron & Railway Co. authorize the announcement that the company will at once begin the erection of mills for the manufacture of iron pipe, at Ensley. The capacity is to be 5,000 tons a month.

BESSEMER, ALA.—The Veitch Foundry & Machine Co. has been organized with Geo. Veitch, Pres. A building 60 × 76 ft. will be erected.

ALEXANDER CITY, ALA.—The Standard Fertilizer Co., W. L. Walters, Mgr., will erect a fertilizer factory, and wants full equipment for same.

MOBILE, ALA.—Ed. A. Wierengo, of Grand Rapids, Mich., contemplates establishing a cement plant here.

NASHVILLE, TENN.—A plant for the manufacture of insulator pins has been secured through the efforts of the Retail Merchants' Association. The plant will be erected at once. Dr. Jas. Whitworth, John Cassetty and others are interested.

NASHVILLE, TENN.—A $50,000 company will be organized here to erect a spoke factory. E. A. Buchanan is interested.

MEMPHIS, TENN.—The Memphis Fiber Plaster Co. has filed an application for charter. Capital, $30,000. The incorporators are C. W. Stover, C. D. Coddington, W. R. Johnston, H. C. Partee, W. P. Biggs and E. M. Forbes. Fireproof fiber plaster will be manufactured. The plant will be erected at once and it is expected that it will be ready for operation about Jan. 1. F. D. Graham is Secy.

PULASKI, TENN.—A carriage factory, to be completed by Jan. 1, 1906, will be erected here by T. E. Daly, J. H. Ragsdale, Wiley Abernathy and others.

TOLEDO, O.—F. F. Walker, Arch., East Main St., has made plans for factory building for the Automatic Screen Co., of Grand Rapids, Mich., which will move its business to Toledo. Brick, 3 stories, 50 × 80 ft. C. J. Perry, of Grand Rapids, is Pres.

LIMA, O.—The Humane Horse Shoe Co., recently incorporated with a capital of $25,000, will erect a factory building, 40 × 60 ft. J. O. Hover is Secy.

WESTMINSTER, IND.—Reports state that Roberts, Roop & Co. will rebuild flour mill recently burned at a loss of $50,000.

CONNERSVILLE, IND.—The Central Mfg. Co., manufacturers of automobiles, will soon ask for bids for the erection of a large plant on site selected in northern part of city to replace plant recently destroyed by fire.

INDIANAPOLIS, IND.—The Hetherington & Berner Co. is asking for bids for the erection of a new factory building on Kentucky Ave. The company manufactures asphalt mixers.

HAGERSTOWN, IND.—The Minck Brewing Co., of Richmond, will build and establish a brewery plant here. It is announced that bids will soon be asked for.

GRAND RAPIDS, MICH.—W. G. & F. S. Robinson, Archs., have completed plans for factory building for the Oliver Machinery Co. Bids will probably not be asked for until spring.

BUCHANAN, MICH.—The Buchanan Cabinet Co. expects to rebuild its plant recently destroyed by fire, at once.

DETROIT, MICH.—The Northway Motor & Mfg. Co., A. F. Knoblock, Secy., 1300 Gratiot Ave., had plans made for a two-story factory building, 100 × 60 ft. Bids will be received by H. C. La Flamboy, 600 Hancock Ave. West.

CHICAGO, ILL.—H. L. Ottenheimer, Arch., 134 Monroe St., is taking figures for a factory building addition, to be erected at 23d and La Salle Sts., for Davis, Horwich & Steinman. Brick, mill construction, 4 stories, 123 × 61 ft. Cost, $50,000.

FORT WORTH, TEX.—Abraham Rosenthal, of Dallas, and associates contemplate establishing a packing plant here.

BEAUMONT, TEX.—E. W. Sample, of West Point, Miss., and others, will establish a stove foundry here. Articles of incorporation will be filed by E. W. Sample, John H. Brooks, L. Bernard and A. R. Brown.

TACOMA, WASH.—I. M. Wentworth, of the Wentworth Shoe & Leather Co., of San Francisco, Cal., is considering the erection of a large shoe factory here.

CHICO, CAL.—It is stated that the Cramer Meat & Packing Co. has decided to postpone the installation of its cold storage plant to next spring.

KINMOUNT, ONT.—Graham Bros. & Co. will rebuild their creamery, which was destroyed by fire last month.

READERS' WANTS

Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who have the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractor's material, methods, etc. Mention Engineering News when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and without charge.—Engineering News can help buyers.

AIR COMPRESSORS.—Kansas City, Mo.—A. M. Blodgett, 5 Water-Works Bldg., is in the market for air compressors.

HARDWARE.—Spain.—V. de H. Hewado, Real 14, Corunna, Spain, wishes to correspond with makers of furniture, hardware, etc.

MALLEABLE IRON.—Mobile, Ala.—E. H. Altman, 115 Old Shell Road, writes us that he wants the names of makers of malleable iron.

ELECTRIC LAMPS.—Italy.—R. A. Facetti, of Corso Vittorio Emanuele 11, No. 73, Turin, Italy, wants to hear from makers of incandescent lamps.

RAILWAY CROSSING GATES.—Fort Smith, Ark.—Evans & Reed, Engrs., we are informed, are in the market for pneumatic crossing gates.

CEMENT BLOCK MACHINES.—New York.—Jules A. Coelos, 355 West 56th St., writes us that he is in the market for cement block making machines.

MINING TOOLS, ETC.—Wales.—D. W. Williams, U. S. Consul at Cardiff, Wales, wishes to receive catalogues from makers of mining tools, tool handles, etc.

PHOTOGRAPHIC APPARATUS, ETC.—Mexico.—Dr. W. E. Tueblood, of Alamo, Baja Calif., Mex., is in the market for the above, and also stationery.

CONCRETE BLOCK MAKING MACHINES.—Key West, Fla.—J. M. Braxton, C. E., of Key West, writes us that he wants the names of makers of concrete block machines.

SEMI-STEEL CASTINGS. — Indianapolis, Ind.—The Ideal Shaft Support Co., Room 16 Board of Trade, writes us that it wants the names of makers of semi-steel castings.

WATER-WORKS SUPPLIES.—Memphis, Tenn.—W. E. Ayres, 10 Odd Fellows' Bldg., writes us that he would like to receive catalogues from manufacturers of water-works supplies.

CARBON BISULPHIDE MACHINERY.—Mexico.—K. P. Giescke, No. 15 Plaza Bolivia, Monterey, Mex., is in the market for the above for a plant of about 1,000 lbs. capacity daily.

BICYCLES, TYPEWRITERS, CYCLE MOTORS, FURNITURE, ETC.—Colombia.—Julio Carbo y Batile, Apartado No. 44, Barranquilla, Colombia, wishes to act as agent for makers of the above.

METAL WALL PLUGS.—Fort Wayne, Ind.—Theo. N. Case, M. E., writes us that he wants the names of makers of metal wall plugs that may be embedded in concrete work to receive nails.

BRICK AND SOAP MAKING MACHINERY.—Argentine.—A. H. Malone, c/o U. S. Consul-Gen. Buenos Aires, and who is connected with the Fisheries Dept. of the Government, is in the market.

DELIVERY WAGONS, TIN SIGNS, ETC.—Mexico.—It is stated that Leo Fleishman y Cia, P. O. Box 141, Tehaucan, Pueblo, Mex., wants quotations on delivery wagons, tin signs, advertising novelties, etc.

TRIANGLES, LEVEL RODS, TRACING AND DRAWING PAPER.—Baltimore, Md.—The T. A. Blays Co., 14 Clay St., writes us that it wishes to be placed in correspondence with manufacturers of the above.

PICKS, AXES, SLEDGE HAMMERS, ETC.—Wales.—E. R. Thomas & Co., East Road, Taylorstown, Glamorgan, Wales, are reported as desirous of being placed in correspondence with manufacturers of the above.

CONCRETE BLOCK MAKING MACHINES, HOISTS (10 HP.), RAILS, WATER SOFTENING PLANTS, ETC.—Australia.—Frank R. Perrot, of Perth, West Australia, writes us that the above material is wanted.

COMBINATION GRADING, DITCHING AND WAGON LOADING MACHINES.—Anderson, Ind.—Gedge Bros. Iron Roofing Co., B. H. Gedge, Pres. and Gen. Mgr., writes us that it wishes a list of makers of the above.

CONCRETE BLOCK MACHINES.—Brooklyn, N. Y.—P. A. Faribault, Ch. Engr., Office of Superintendent of Bldgs., Brooklyn, writes us that he wants the names of manufacturers of machines for making concrete block machines.

CONCRETE MACHINERY.—Los Angeles, Calif.—The Roberts Land Co., 203 Mercantile Pl., writes us that as it will have considerable reinforced concrete work to do it is desired to be placed in touch with manufacturers, etc.

FIRE HOSE.—Lake City, Fla.—Prof. M. T. Hochstrasser, of the University of Florida, writes us that he wants the names of makers of fire hose. Names of such makers are also wanted by Mayor Bliss, of Pensacola, Fla., as stated elsewhere.

WOOD SCREW MAKING, PIPE BENDING AND LAMP WICK MACHINERY.—British India.—A. K. Dutt & Co., merchants and contractors, 115 Upper Chilpore Road, Calcutta, India, writes us that they want the names of makers of the above.

ICE-MAKING MACHINES.—Chas. B. Rogers, of Batesburg, S. C.; Clarence H. Ellis, of Alton, Fla., and E. J., Montezuma, Ga., are in the market for machinery for making ice, and T. N. Haas, of Harrisonburg, Va., wants refrigerating machinery.

BUTTON MAKING MACHINERY.—Philippines.—Santiago Artiaga, of the office of drafting and surveys, Dept. of Eng. and Pub. Wks., writes us that he wishes to be placed in touch with concerns making shell button machines. Prices of machines are wanted.

GASOLINE ENGINES.—New York, N. Y.—Clinton Mackenzie, Arch., 82 Weaver St., writes us that he wishes to be placed in touch with any gasoline engine manufacturers who have adapted their engine to driving a portable wood saw, suitable for cutting up second growth timber.

LEASING RAILWAY CARS.—Elk Rapids, Mich.—The Elk Rapids Iron Co., E. G. Rust, Gen. Mgr., writes us that it wishes to know the names of firms who lease railway cars. The company wishes to lease standard gage cars, wooden bodied, flat, and about 50,000 lbs. capacity. It is not desired to buy cars.

DRAIN PIPE.—Accomac, Va.—F. E. Ruediger, Civil Engr., writes us that he wants quotations on 18, 20 and 22-in. unglazed drain pipe, and also the number of lin. ft. in the carload f. o. b. Talsey Station, Va., Phila. & N. R. R. in Accomac County. Prices are also wanted on T's and L's, same sizes.

PAVING BLOCKS AND BRICK, AND HOOK AND LADDER TRUCK and 1,500 FT. OF FIRE HOSE.—Pensacola, Fla.—Chas. H. Bliss, Mayor, writes us that the city wants quotations on the above at once. C. H. Turner, Chn. Bd. Pub. Wks.; Walter Ingraham, Chn. Bd. Pub. Safety; W. R. Bicker, Ch. Fire Dept.

AMERICAN MACHINERY.—South Africa.—C. A. Farrell, agent for machinery firms, P. O. Box 1603, Johannesburg, Transvaal, is reported as wishing to be placed in correspondence with firms who manufacture engineering and contracting machinery and supplies. He believes that there is a great future for American supplies in South Africa.

BUILDING SUPPLIES, CEMENT, ETC.—It is reported that building supplies, equipment, cement, etc., are wanted by A. J. W. Carr, 504 11th St., N. W., Washington, D. C.; Dr. P. H. Stewart, of Paducah, Ky.; R. A. Spaugh, of Winston-Salem, N. C., etc. The latter also wants concrete block making machines, and Dr. Stewart wants concrete mixers.

BOILERS AND ENGINES.—It is stated that the following will buy boilers and engines at an early date: Athens Cotton Mill Co., Athens, Ala.; High Point Roll & Panel Co., High Point, N. C.; Lt.-Col. F. von Schrader, D. Q. M., U. S. A., St. Louis, Mo.; C. H. Ellis, Alton, Fla.; Red Snapper Sauce Co., Centreville, Miss.; The Fravel Sash & Door Co., Broadway, Va., and Eagle Furniture Co., High Point, N. C.

SEWER PIPE MAKING MACHINES.—Australia.—Leslie & Co., Engineers and Contractors, Palace Chambers, St. George's Terrace, Perth, West Australia, write us that they want the names of makers of machines for making Portland cement concrete circular sewer pipe, 6 to 18 ins., with faucet joints. Particulars and prices are wanted, with statement of the cost of production for labor incidental to working the machines.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

WHARVES.—San Luis Obispo, Cal.—County has voted to issue bonds for building three wharves, one at Cayucos, one at Avila and the third at Cambria.

HARBOR IMPROVEMENT.—Stockton, Cal.—We are informed that matter of bonding city for harbor improvements is under consideration. R. C. Tumelty is Cy. Engr.

DITCH WORK.—Port Arthur, Ont.—George E. Gibson, Port Ontario, Ont., is interested in the construction of two drainage ditches, requiring about 60,000 cu. yds. excavation.

CONDUITS.—York, Pa.—Council has passed ordinance granting N. J. Mitchell, New York, a franchise to construct and maintain an underground system of conduits for the installation of wires.

RETAINING WALL.—Bradford, Pa.—Bids are reported asked by E. C. Charlton, Cy. Engr., until 5 p. m., Nov. 6, for construction of retaining wall along High St.; bids are to be taken on both stone and concrete construction.

LUMBER.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Nov. 21 for furnishing 451,500 ft. B. M. of white oak. H. T. B. Harris, Paym. Gen., U. S. N.

FLOOD PROTECTION. — Grand Rapids, Mich.—We are informed that work in connection with flood protection of this city will probably be taken up next year. L. W. Anderson is Cy. Engr.

TOWER.—Norristown, Pa.—Bids are asked at office of Borough Engineer, until noon, Nov. 15, for erection complete of fire alarm or whistle tower, 100 ft. high. (Advertised, Engineering News.)

BULKHEADS.—Asbury Park, N. J.—County Freeholders have awarded contract for constructing bulkheads and jetties in Shark River to THOMAS M. PROCTOR, Long Branch, N. J., for $6,320.

PIER, CLUBHOUSE.—West Palm Beach, Fla.—E. A. Ehmann, Arch., is stated to have completed plans for a pier which the Lake Worth Yacht Club will have constructed at foot of Second Ave. Pier will extend 500 ft. out into lake, and clubhouse will be erected on it.

FILLING AND GRADING.—New Orleans, La.—The bids received Oct. 14 by Bureau of Yards and Docks, Washington, D. C., for filling and grading at the naval station, New Orleans, have been rejected.

CONCRETE DOCK.—Chicago, Ill.—Trustees Sanitary District of Chicago, S. D. Griffin, Clk., have extended time for receiving bids for building a concrete dock along water front of W. C. Seipp Bldg., from Oct. 25 to Dec. 6.

FENCE.—Fort Douglas, Utah.—Bids are asked by Col. C. A. H. McCauley, C. Q. M., Denver, Colo., until 11 a. m., Nov. 14, for furnishing labor and material to construct about 25 miles of barbed wire fence at Fort Douglas.

BOILERS.—New York, N. Y.—Bids are asked by Board of Health, Thomas Darlington, Pres., 55th St. and Sixth Ave., until 10 a. m., Nov. 14, for furnishing and installing two boilers in boiler house at Kingston Ave. Hospital.

PARK WORK.—New York, N. Y. — Bids were opened Oct. 26 by the Park Board, for constructing portion of St. Nicholas Park, Bart Dunn, Kingsbridge, New York, at $142,000, being lowest bidder. Itemized bids are given under Contract Prices.

TELEPHONE SYSTEM.—Billings, Mont.—Bids are asked at office of Engineer, U. S. Reclamation Service, Billings, until 3 p. m., Dec. 15, for installing a telephone system having eight or more telephone stations and 22 miles or more of pole line. (Advertised, Engineering News.)

DREDGING MACHINERY. — Philadelphia, Pa.—Following bids were opened Oct. 23, by Capt. C. A. F. Flagler, U. S. Engr., for constructing a rehandling machine for dredged material: Maryland Steel Co., $84,730, delivered in 250 days; Ellicott Machine Co., $85,000, delivery March 1 next.

LOCK, DAMS, WALL.—Chicago, Ill.—Bids are asked by Sanitary District of Chicago, Zina R. Carter, Pres., until noon, Dec. 27, for constructing a canal lock, two movable dams, and a fender wall, as a part of the water power development now under way near Lockport. (Advertised, Engineering News.)

DRAINAGE CANAL.—Osceola, Ark.—W. E. Avers, Engr., Room 10, Odd Fellows Hall, Memphis, Tenn., is now making surveys for 40 miles of drainage canal work in Mississippi and Crittenden Counties, Arkansas. This work will be dipper dredge boat work. Bonds will be issued and bids will be asked for in about 30 days.

DREDGING, ETC.—New Orleans, La.—Bids are asked until 11.30 a. m., Nov. 27, for dredging a channel near West shore of Sabine Lake, connecting the Sabine and Neches Rivers with Taylor's Bayou, Tex., and for constructing creosoted wooden revetment. Capt. J. F. McIndoe, U. S. Engrs. (Advertised, Engineering News.)

STEAM SHOVELS, CARS.—Washington, D. C.—Isthmian Canal Commission has awarded contract for 19 70-ton steam shovels to the BUCYRUS CO., South Milwaukee, Wis., at $10,000 each. Contract for 800 wooden freight cars for use in Panama R. R., was let to AMERICAN CAR & FOUNDRY CO., Pittsburg, Pa., for $990 each.

FENCE.—New York, N. Y.—Bids are asked by Park Board, Samuel Parsons, Jr., Pres., until 3 p. m., Nov. 9, for furnishing all the necessary materials for and constructing and erecting fully complete a gas pipe and wire mesh fence upon the backing-log of the bulkhead along the water front of Thomas Jefferson Park, Borough of Manhattan.

MACHINERY.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Nov. 14, for furnishing a quantity of machine tools, as follows: Schedule 197 tenoming machine, cut-off saw, turntables; schedule 198, metal separator, oil separator, pipe cutting machine, planer and lathe. H. T. B. Harris, Paym. Gen., U. S. N.

FERRYHOUSE.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Battery Pl., until 2 p. m., Nov. 17, for furnishing labor and materials required for preparing for and building at foot of Whitehall St., East River, a new ferry house and structures appurtenant thereto, in connection with the new Whitehall ferry terminal.

UNDERGROUND CABLE. — Philadelphia, Pa.—Specifications for installing certain underground cables at League Island Navy Yard may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by Bureau Yards and Docks, Washington, D. C., until Nov. 18, as was stated in our last week's issue. Est. Cost of work is $12,500.

VACUUM CLEANING PLANT.—Lincoln, Neb.—Following bids were opened Oct. 23, at office of Supervising Architect, Washington, D. C., for installation of a vacuum cleaning plant in the court house and post office at Lincoln: Vacuum Cleaning Co., New York, $8,250, no time set; Iowa Sanitary Cleaning Co., San Jose, Cal., $4,050, to be completed by May 25, 1906.

PIPE GALLERY.—New York, N. Y.—Bids are asked by Board of Health, Thomas Darlington, Pres., 55th St. and Sixth Ave., until 10 a. m., Nov. 14, for furnishing labor and materials necessary or required to construct an underground pipe gallery, together with all work incidental thereto, at the Kingston Ave. Hospital, Kingston Ave. and Fenimore St., Borough of Brooklyn.

TILE DRAIN.—Waggoner, Ill.—Bids are asked by C. F. Long and E. M. Browning, Comrs. Drainage District No. 1, Town of Pitman, until noon, Nov. 11, for furnishing 2,700 ft., 20-in. and 3,600 ft. 18-in. salt-glazed vitrified drain tile, and 2,000 ft. 14-in., 3,800 ft. 12-in., 2,600 ft. 10-in. and 1,550 ft. 8-in. hard well burned drain tile. Bids are also asked for laying the above. James W. Dappert, Engr., Taylorville, Ill.

DREDGING.—Philadelphia, Pa.—No bids were received Oct. 28 by Bureau of Yards and Docks, Washington, D. C., for dredging work at League Island. The bids opened on Sept.

23, from the Cataract Dredging Co., Baltimore, for 0.273 cts. per cu. yd., and the Bowers Hydraulic Dredging Co., Camden, 45 cts. were rejected, and specifications issued calling for a shorter length of pipe.

TILE DRAIN.—Morrisonville, Ill.—Bids are asked by Martin McLean, Joseph Long and W. R. Palmer, Comrs., Union Drainage District No. 3, until noon Nov. 18, for furnishing 1,750 ft. 20-in., 2,200 ft. 18-in., 2,600 ft. 15-in., and 1,500 ft. 14-in., salt-glazed vitrified drain tile; also 2,400 ft. 12-in., 5,750 ft. 10-in., 3,430 ft. 8-in., and 1,400 ft. 7-in. hard burned red tile. Bids are also asked for laying above tile. James W. Dappert, Engr., Taylorville, Ill.

DRILLS, RAILS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Nov. 21 for furnishing a quantity of naval supplies, among which are the following: Schedule 211, twist drills, ceiling hangers, boiler tubes, iron and steel pipe, pipe fittings, gate valves, etc.; schedule 212, electrical fixtures, bolts, spikes, yellow pine, steel rails, car wheels, etc.; schedule 213, wire, motors, pneumatic tools. H. T. B. Harris, Paym. Gen., U. S. N.

FERRY HOUSE.—New York, N. Y.—Following bids were received Oct. 30 by Maurice Featherson, Comr. Docks, for furnishing labor and materials required for preparing for and building at St. George, S. I., a new ferry house and other structures appurtenant thereto, in connection with the new St. George Ferry Terminal: Milliken Bros., 1 Broadway, $692,000; Jno. R. Sheehan & Co., 160 Fifth Ave., $677,000 Buckley Realty & Const. Co., Times Bldg., $585,000; Snare & Triest Co., 143 Liberty St., $576,900; Luke A. Burke, 59th St. and 9th Ave., $649,750; North Eastern Const. Co., 233 St. and Broadway, $740,000; all bidders of New York City.

WHARF.—California City Point, Cal.—Following bids were opened Oct. 25 by Bureau of Equipment, Navy Department, Washington, D. C., for construction of wharf and double cottage at U. S. Naval Coal depot, California City Point: (1) under Government specifications, (2) under bidders' specifications: Snare & Triest Co., New York (1) $172,900, (2) $165,000, $149,000, $147,000, $143,000, $136,000, $140,000, $148,000 and $153,000; Healey-Tibbetts Construction Co., San Francisco, Cal., (1) $197,389, $199,930, (2) $185,-000, $188,390, $174,989, $167,280, $170,000 and $189,000; Hyde, Hodges & Co., San Francisco, Cal., (1) $119,380, $203,490, (2) $179,-380 and $168,380; W. N. Concanon, Oakland, Cal., (1) $203,700, $207,800; Pacific Coast Co., San Francisco, Cal., (1) $192,800, $195,980, $180,930, $184,600, (2) $176,820 and $165,900; if tender is desired add $6,000 to any of the above propositions; San Francisco Bridge Co., San Francisco, Cal., (1) $190,000, $180,000, $183,690, $174,000; Cotton Bros. & Co., Oakland, Cal., (1) $194,690, $179,990 and $169,000; Thomas Thompson, San Francisco, Cal., (1) $152,000; additional for pumping out cylinders, $5,000, (2) $117,500 and $99,500; bid withdrawn by telegram.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person who happens to be in charge of the office. If addressed to the consul by name they are forwarded to him unopened if he should be absent, and a delay thus intervenes; if he should in the meantime have gone out of office they may wholly escape attention.)

ELECTRIC RAILWAY.—Switzerland.—A concession has been granted to the Alioth Electric Co., of Bâle and Messrs. Vallière & Simon, Engrs., of Lausanne, for the construction and working of an electric railway from Sépey to Ormont-Dessus.

ELECTRICAL UNDERTAKING.—Japan.—La Tokio Shigai Tedsudo (Tokio tramways) is forming a company with a capital of about $15,000,000. This is the largest electrical undertaking in Japan and even in the East. It has 37 plants, either at Tokio or in the other large towns of Japan, representing 35,000 HP., capable of supplying 400,000 lamps.

ZINC WORKS.—Belgium.—A company entitled the "Compagnie Metallurgique Franco-belge de Mortagne" has been formed at Brussels, with the object of the treatment of zinc and other metal ores, as well as the manufacture of sulphuric acid. Its principal object will be the operation of a zinc works erected on the Mortagne-de-Thun and Chateau l'Abbonge (France) territory. The capital has been fixed at $200,000.

WHARF WORK.—New Zealand.—Bids are asked by Harbor Board, J. M. Brigham, Secy., Auckland, New Zealand, until noon, Jan. 9, 1906, for the construction in reinforced concrete of part Queens St. Wharf and New Ferry Jetty. Plans, specifications and conditions may be seen at office of Department of Docks and Ferries, Battery Pl., New York City.

COAL MINING.—France.—"The Charbonnages d'Argentat" is the name of a new limited company which has been formed for the purpose of working the coal deposits of Correzo. The capital has been fixed at $130,000. The following are the first board of directors: Maurice Boutté, C. Chertemps, A. Reynaud, of Paris; and Henri Faure and J. Ziilard, of Clermont-Ferrand.

BRIDGE.—Belgium.—Tenders, by registered post, are invited up to Jan. 23, 1906, by the "Direction des Ponts et Chaussées," Namur, for the construction of a bridge, with the necessary approaches, over the Meuse at Namêche. A deposit of $8,000 is required to qualify any tender. Specifications and three plans can be obtained from the "Bureau Central des Renseignements, rue des Augustins, No. 15, Brussels," for $1.36.

HARBOR EXTENSIONS.—Germany. — By treaties recently arranged Bremen has acquired facilities to increase, to a considerable extent, its harbor on the Weser, near Geste. The need for this extension of the harbors has been brought about by the enormous increase of shipping there, more especially of the North German Lloyd. Besides various other harbor works, new docks and ship-repairing docks for that line are to be undertaken. A new second dry dock is to be built at a cost of $1,850,000.

RAILWAY.—Paraguay.—A correspondent writes us that several capitalists of Rosario have presented a project to the Paraguayan Government for the construction of two railway lines, one from Ita Pucuru, in Port Stanley, into the Chaco, a distance of 100 kilometers, and the other line from Curuzu Cuatia, through San Pedro in a northeast direction, with a length of 150 kilometers. They ask for a guarantee of 5% on the capital, which would be $1,200,000. These lines would open up the forest lands recently acquired by the capitalists in question.

ELECTRIC PLANTS.—France.—Under the title "Societe d'Etudes pour l'Exploitation de l'Energie electrique à Paris," a company has been formed, having principally for its object the obtaining of the concession from the town of Paris of the future régime of electricity for that town. The capital has been fixed at $200,000. The first board of directors consists of A. Benac, G. Gonin, C. Mildé, Marie Maurice, Gen. Manager of Messrs. Schneider & Co.; M. Lichtenberger, General Secretary of Schneider & Co., all of Paris; and Paul Nivard, of Saint Cloud (Seine-et-Oise).

PORT EXTENSION.—Belgium.—The Belgian Government has a scheme for the extension of the port of Antwerp. The cost of the scheme, excluding the construction of the dry docks and the nine great subsidiary docks to the new canal dock, the cost of which will be borne by the town of Antwerp, is estimated at about $37,500,000. The scheme will probably require 10 years for its execution. Details of the work are contained in a report of E. C. Hertslet, British Consul General at Antwerp, which can probably be obtained from Wyman & Sons, Ltd., Fetter Lane, E. C., London, England, for 14 cts., exclusive of postage.

ENGINEERS.—Chile. — Edward Winslow Ames, Secretary of the U. S. Legation at Santiago, Chile, reports on the authority of Señor Don Manuel Foster, a gentleman well and favorably known to the legation, that various mining companies in Chile are looking for American engineers. Of the many mining companies seeking this assistance, Señor Foster recommends two, one a copper company, and the other a gold-dredging concern. Secretary Ames suggests that gold-dredging and copper experts who may be interested address Señor Don Manuel Foster, in care of the legation at Santiago. Señor Foster believes it advisable for engineers to go only under specific contract made prior to leaving.

BRIDGES, RAILROADS, ETC.—Argentina.—A correspondent in Buenos Aires sends us the following information concerning public and private improvements in this country.

Bridge.—Buenos Aires.—The Executive has approved of the plan, specifications and metrical calculations for the bridge over the river Las Couchas and the Morales Pass in the Province of Buenos Aires, and the Board of Ways and Communication is to call for tenders for the work.

Railway.—San Antonio.—The petition sent to congress by A. Madero & Co., Buenos Aires, for the construction and working of a line from San Antonio (Gulf San Matias) to Villa Mercedes (San Luis) and a branch to Bahia Blanca and port at San Antonio, has been favorably reported upon by the Public Works Committee.

Railway.—Buenos Aires. — The Executive has approved the plans presented by the Central Cordoba Ry. Co., relative to its new line from Rosario to Buenos Aires with a few exceptions, chiefly in reference to bridges over navigable rivers, etc., which the line will cross. New plans are to be presented within six months, together with a copy of the agreement relative to a junction with the Pacific Ry.

Electric Railways. — Buenos Aires.—Government has forwarded to Congress a bill authorizing the Buenos Aires Municipality to construct underground electric railways. The concession is to be granted on the following conditions: The work to be carried out in accordance with the plans drawn up by the authorities; the concessionaire to work the lines for 40 years, after which it would pass over to the corporation. All materials will be allowed in duty free.

Railways. — Buenos Aires.—The Public Works Committee of the Deputies has reported favorably on the following projects for new lines: Senor Juan Pefig—a line from Cordoba through Rio IV, to Bahia Blanca and Puerto Militar; Senor Jose Vacario—a line from Villa Mercedes (San Luis) to Rosario, with branch to Port San Martin; the surveys of the National Government for the prolongation of the Chumbicha-Catamarca line; Ignacio Oyuela & Co.—a line from Junin to Lincoln.

Tramway. — Marini. — The Rafael Steam Tramway Co. has been authorized to extend its line from Marini to Bicha Colony, and on to Bossi in the San Cristobal Department of the Province of Santa Fe.

Railway Extension.—Buenos Aires. — Congress has granted permission to Richard Seeber to prolong his steam tram line from the Matadores to the Riachuelo, and then on to Lanus or Banfield to join up with the line of the Great Southern.

Railway.—Buenos Aires.—The French Railway Co. of Santa Fé has applied to congress for a concession for a line from San Cristobal to Fortin Quaycuru-Aguila in the Province of Santa Fé.

Port Works.—Buenos Aires.—Advices have been received from Paris to the effect that the contracts for the construction of the Samborombo Port and railways leading thereto have been signed by the concessionaires. Engineers and contractors will leave shortly for Buenos Aires.

Railway.—Bahai San Blas.—A concession has been granted to F. Mulhall, Buenos Aires, for the construction of a railway line from Bahia San Blas to Choele-Choel, with a branch to Carmen de Pategones. Government to intervene in the tariff when gross receipts are 14% on the capital.

Water-Works, Etc.—Buenos Aires. — The government of the Province of Buenos Aires has been authorized to carry out water and drainage works in the city of La Plata, and to pay for the same in bonds. The issue to amount to $6,500,000 (municipal money).

Railways. — Buenos Aires. — The Public Works Department of the Chamber of Deputies has reported favorably on the following project: Government to be authorized to construct the following railway lines: A line from Gova to join up with the Argentine North Eastern between stations San Diego and San Rogue, distance about 100 kilometers. A line between Santo Tome and Pasadas, length 146 kilometers. Payment to be made in bonds of a total issue of $3,500,000 gold.

TRADE CONDITIONS IN BELGIUM.

A correspondent in Brussels has sent us the following information concerning industrial conditions and the securing of contracts in this country: Relatively speaking, Belgium is one of the first countries in the world on the industrial market. This is rather a broad statement, but it is none the less true, and is borne out by recent statistics. During the year 1901 her foreign trade amounted to 4 milliards, 100 million francs. The population of the country was about 6,800,000 inhabitants, that is, then, an average of 595 francs per person. Holland alone exceeds these figures; but that country owes her superiority not to her industry, but to her commercial houses. Belgium, relatively speaking, is then at the head of all nations of the world [illegible] international market. The Belgium [illegible] an industrial nation par excellence.

We have a still further [illegible] fact. According to the [illegible] of this latter inhabitants out of a po[illegible]s, 1,370,000 are employed in the diff[illegible] of 6,694,000 is to say, that nearly one [illegible]stries. That population devote them[illegible] of the whole pursuits. [illegible] to industrial

The industrial activity [illegible] country naturally gives rise to forei[illegible]. There is a lack of tropical produ[illegible] mineral substances in Belgium. It [illegible] resources do not supply all the ma[illegible]cessary for its various industries. The [illegible]en, must be sought from abroad. A[illegible] this connection European countr[illegible]ent less obstacles to the foreigner in [illegible]ing successfully on the industrial ma[illegible] Belgium. No prejudice whatever ex[illegible] regard to the nationality of competi[illegible] although there is a certain amount [illegible]rotism and national pride for the st[illegible] of home enterprise, this in no way [illegible] the eyes of the government or of indiv[illegible] to the principles of economy. In some [illegible]en exemption from duty is granted [illegible]stance, for material required for naval [illegible]uction. And in this alone will be seen [illegible]avor which the foreigner enjoys. Quality [illegible]aterial, excellency of workmanship, th[illegible]perience and reputation of bidders, are all [illegible]ched in the balance, together with the [illegible] regardless of nationality.

One of the first things the [illegible]gian looks for in giving contracts is the [illegible]ishing of a guarantee for their fulfilment. Very often it happens that the guarantee[illegible] more discussed and looked into than the[illegible] prices themselves. Absolute guarantee fo[illegible] the execution of the contract, payment of [illegible]enalties for non-fulfilment, assurance of [illegible]pleting work by a certain time, etc., must be [illegible]early stated in all tenders, and the value of the guarantee is estimated by the reputation of the firm, its experience, extent of capital, etc.

There is another very important point, and one which is often overlooked by manufacturers: that is, the necessity of having a representative in the country familiar with the language and customs of the people. Too much stress cannot be laid on this point, for the Belgian is rather skeptical with regard to prospectuses and catalogues. It very often happens that he cannot understand them. And with reference to illustrations of machinery, etc., he believes that photography always increases the beauty of a thing much beyond the original. Personal contact is necessary as a certain method of competing successfully; this is so keenly felt that every year foreign houses are opening offices in Belgium or sending over their agents to conduct a compaign.

The fact must not be lost sight of, however, that manufacturers must contend with the low wages prevalent in Belgium. Labor is so cheap in this county that the best manufactured articles can be produced at prices which defy the keenest competition, and for this reason many American houses have established themselves on Belgian soil, so as to better compete with other American manufacturers.

Nothing, then, stands in the way of American houses desirous of securing Belgian contracts. The principal element is promptness in acquiring information and constant touch with the government and individuals, a knowledge of what transpires on the various industrial and commercial exchanges, and an intimate acquaintance with the general requirements of the country at large.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

PARK WORK.—New York, N. Y.—Following bids were opened Oct. 26 by the Park Board, Fifth Ave. and 64th St., for constructing that portion of St. Nicholas Park north of 135th St. and east of St. Nicholas Terrace, Manhattan Borough: (1) Wm. J. Flanagan, Yonkers, N. Y.; (2) P. J. Kane, 933 East 156th St., New York; (3) Bart Dunn, Kingsbridge, N. Y.; (4) Kelly & Kelley, 45 East 42d St., New York; (5) Culgin & Pace Contracting Co., Third and Tremont Aves., New York; (6) A. F. McGuiness, 1568 Third Ave., New York; (7) Jno. J. Hart & Co., 175th St. and Broadway, New York; (8) Geo. I. Bailey, 1144 Fulton Ave., New York; (9) James Pilkington, Fort Washington Park, New York; (10) Jno. J. Hopper, 215 West 125th St., New York; (11) Cunningham & Kearns, 438 East 91st St., New York:

BIDS RECEIVED AT NEW YORK, N. Y., OCTOBER 26, 1905, BY THE PARK BOARD, FOR CONSTRUCTING THAT PORTION OF ST. NICHOLAS PARK, NORTH OF 135TH STREET AND EAST OF ST. NICHOLAS TERRACE, MANHATTAN BOROUGH.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Earth excavation	14,000 cu. yds.	$1.00	$0.80	$0.35	$0.60	$0.80	$1.00	$1.10	$0.80	$2.20	$1.80	$0.75
Rock excavation	2,500 "	3.00	2.50	1.50	3.00	3.00	3.00	3.50	2.50	3.20	4.00	2.00
Borro wed fill in place	500 "	1.00	.10	.01	.50	.50	.....	.75	1.00	.01	.20	.40
Loose rock removed	60 "	5.00	1.50	1.50	75.00	5.00	5.00	3.50	10.00	1.00	4.00	2.00
Rustee rock to be planted and doweled into bed rock	250 "	8.00	3.00	3.50	10.00	25.00	10.00	10.00	10.00	5.00	40.00	25.00
Manure	6,850 "	3.00	1.80	2.25	2.00	1.00	2.00	1.50	2.50	.50	2.00	1.25
Mold	21,300 "	2.00	1.40	1.60	1.35	2.50	1.50	1.50	1.50	1.62½	1.50	1.20
Sod	375,000 sq. ft.	.03	.05	.01¾	.01½	.03½	.02	.03½	.04	.02	.02	.02
Walk basins, complete	75	47.00	50.00	44.50	70.00	50.00	75.00	70.00	50.00	50.00	100.00	60.00
Surface basins, complete	20	50.00	50.00	48.75	70.00	65.00	75.00	70.00	60.00	50.00	125.00	70.00
Receiving basin	1	300.00	175.00	197.49	200.00	225.00	200.00	250.00	300.00	225.00	200.00	200.00
6-in. vitrified drain pipe	1,650 lin. ft.	3.00	.50	1.15	1.00	1.75	1.50	1.60	2.00	1.50	1.75	2.00
8-in. " "	1,850 "	2.00	.50	1.32	1.00	1.85	1.75	1.60	2.50	1.75	2.00	2.25
10-in. " "	600 "	2.00	.65	1.55	1.50	2.35	2.50	1.60	3.00	2.00	2.30	2.50
12-in. " "	1,300 "	2.00	.75	1.75	2.00	2.75	4.00	1.75	3.50	2.00	2.00	4.00
Manholes	22	75.00	100.00	150.00	200.00	110.00	60.00	70.00	100.00	50.00	70.00	100.00
3-in. porous tile pipes	6,500 lin. ft	.30	1.00	.22	.30	1.60	.25	.60	.10	.20	.25	.30
Water supply system, complete	.....	15,000	6,000	8,000	20,000	7,500	10,000	9,700	6,000	6,800	10,000	9,000
New 5-in. curb stone	425 lin. ft.	1.25	1.50	1.15	2.00	1.60	2.00	1.50	1.00	1.25	1.00	1.25
2½-in. blue stone edging	2,000 "	1.50	1.25	1.00	.90	.80	1.50	2.00	1.50	.50	.85	1.25
Asphalt walk	100,000 sq. ft.	.30	.25	.25	.20	.25	.31	.30	.27½	.15	.22	.25
Rubble masonry	1,200 cu. yds.	7.50	6.50	5.60	7.00	6.00	6.00	12.00	7.50	4.00	3.00	7.00
New blue stone steps	5,650 lin. ft.	1.50	1.25	1.35	2.00	2.25	1.75	3.50	2.00	1.50	1.25	1.75
Blue stone checks	1,000 "	1.50	1.25	.80	1.10	1.00	1.25	2.25	2.00	1.00	.50	1.75
Blue stone steps, reset	105 "	1.00	.50	.25	1.00	.40	.50	1.25	1.00	.20	.50	1.00
Repairs to old and furnishing and erecting new wrought-iron	.....	750.00	500.00	2,100	1,500	1,000	1,350	2,200	5,000	500.00	1,500	1,000
3-in. rail pipe fence with wire mesh screening	2,090 lin. ft.	2.50	1.35	1.70	1.50	1.70	1.25	3.50	3.00	1.50	1.10	2.00
Two rail pipe fence, with wire mesh screening	2,150 "	3.50	1.35	1.50	1.25	1.20	1.10	2.75	2.40	1.00	1.10	2.00
Totals		$190,036	$156,500	$142,000	$162,307	190,782	$159,700	$197,521	$183,260	$145,390	$171,4[illegible]	$154,759

*CONCRETE CONDUIT.—Richmond, Va.—Bids were opened Oct. 16 by Chas. E. Bolling, Supt. W. W.; E. E. Davis, Asst. Supt., for construction of a reinforced concrete conduit. Bids for this work have been taken several times before, the last previous opening of bids occurring on Sept. 5, the itemized bids received at that time being given under Contract Prices in our issue of Sept. 21. As a result of the Oct. 16 opening of bids, the City Committee Water has recommended to the City Council that the contract be awarded to the Crouse Construction Co. The bids received at last letting were as follows; (1) Shorter & McCormick, 101 Tremont St., Boston, Mass.; (2) Thos. A. Barry & Co., Richmond, Va.; (3) Crouse Construction Co., Perth Amboy, N. J.:

Bids Received at Richmond, Va., October 16, 1905, by Chas. E. Bolling, Supt. W. W., for Construction of a Reinforced Concrete Conduit.

Items.	Quantities.	(1)	(2)	(3)
5-ft. reinforced concrete conduit	2,417 cu. yds.	$24.00	$23.50	$17.00
4-ft. cast-iron main	55 lin. ft.	16.00	16.00	14.25
24-ft. cast-iron main	330 "	9.50	8.00	6.75
8-in. blow-off valves	2	70.00	100.00	55.00
30-in. gate valve	1	300.00	400.00	260.00
24-in. gate valve	1	200.00	300.00	220.00
Concrete in foundations	300 cu. yds.	7.50	9.00	5.97
Excavating and furnishing bonds and caulking 36-in. cast-iron pipe	70 lin. ft.	7.50	11.00	7.98
Rip-rap	2,643 cu. yds.	2.50	3.10	2.10
All earth excavations and refilling for conduit and connections	3,833 cu. yds.	1.75	3.50	.45
Loose rock excavation and refilling for conduit and connections	150 cu. yds.	2.00	1.50	.60
Solid rock excavation and refilling for conduit	130 cu. yds.	2.75	3.50	2.50
Approximate totals		$79,341	$86,978	$54,730

*BELLE FOURCHE DAM.—Belle Fourche, S. Dak.—Following bids were opened Oct. 26 by U. S. Reclamation Service under Schedule No. 1, for construction of Belle Fourche Dam: Raymond F. Walter, Engr.-in-Charge; (1) Orman & Crook, Pueblo, Colo.; (2) Widell-Finley Co., Mankato, Minn.; (3) Callahan Bros. & Katz, Omaha, Neb.; (4) Empire Engineering Co., by L. W. Bates, New York; excavating. The bids received were as follows: (1) R. K. Dabney, Grand Prairie, Tex., (2) R. H. Fleming & Co. (R. H. Fleming, Ludlow, Ky., and Bruce Schoolfield, Newport, Ky.): 14,290 sq. yds. paving, brick in place, including, rolling, grouting, etc., (1) $1.15, (2) $1.13; concrete in place, (1) $4.70, (2) $4.40; gravel, cushioning sand in place (1) $1, (2) $1; 4,145 lin. ft. curb, (1) 60 cts., (2) 56 cts.; 3-in. × 12-in. wood end headers, (1) 9 cts., (2) 7 cts. Total est. cost of work is $33,500. Contracts will probably be let Nov. 6. Chas. E. Haydon is Cy. Engr.

*RIPRAP, ETC.—New York, N. Y.—Following bids were opened Oct. 27, at U. S. Engineer's Office, for furnishing riprap and enlarging sea wall at Sandy Hook; about 25,000 tons of stone required; bids per ton: Abbot Gamble Co., 32 Broadway, New York, $2.265, $2.265; Stacy B. Opdyke, Jr., 1930 Broadway, New York, $3.60, $5.40; Merrit W. Pharo, Philadelphia, Pa., $1.98, $2.42; Bonker Contracting Co., 21 State St., New York, $1.94, $1.94; Brown & Fleming Contracting Co., 129 Broad St., New York, $1.74½, $1.74½; Leslie McHarg & Co., 299 Broadway, New

Bids Received at Belle Fourche, S. Dak., October 26, 1905, by U. S. Reclamation Service, for Construction of Belle Fourche Dam.

Items.	Quantities.	(1)	(2)	(3)	(4)
Preparing surface beneath embankment	31 acres	$8.25	$10.00	$7.50	$97.00
Earth excavation from cut-off trenches:					
Class A	18,000 cu. yds.	.30	.25	.25	.15
Class B	4,000 "	1.25	.40	.75	.20
Class C	2,000 "	3.00	.60	1.25	.23
Earth excavation for structures at dam	6,000 "	.50	.50	.25	.42
Earth excavation for dam embankment	1,580,000 "	.28	.365	.35	.325
Earth excavation for stripping borrow and gravel pits	35,000 "	.16	.18	.25	.33
Earth excavation, trimming dam embankment	30,000 "	.30	.25	.25	.41
Gravel for roadways and on slope of dam	22,000 "	3.75	1.40	1.75	2.65
Screened gravel under concrete	22,000 "	4.00	1.50	2.00	3.15
Soil dressing, seeding, and caring for embankment	15 acres	30.00	200.00	800.00	1,630.00
Round wooden piles in place	450	11.44	9.00	4.50	10.90
Grading, Class A	230,000 cu. yds.	.20	.199	.18	.20
Class B	25,000 "	.42	.35	.40	.40
Class C	1,000 "	1.05	1.00	1.00	.80
Overhaul	10,000 "	.02	.01	.02	.015
Preparing surface for canal embankment	1 acre	8.25	10.00	8.00	97.00
Concrete masonry, Class A	15,000 cu. yds.	7.00	6.70	9.50	8.50
Class B	1,700 "	6.80	6.95	10.00	7.90
Class C	1,850 "	6.50	6.75	12.50	7.90
Class D	280 "	6.80	7.50	12.50	7.90
Class F	3,100 "	6.80	10.00	10.00	8.30
Gravel, screened and washed	2,000 "	3.60	.25	2.00	3.40
3 sluice gates, 4 x 6-ft. and guides complete; 5 ball-bearing gate stands, 7 gate shafts, screws, and shaft supports, complete; 2 plain gate stands.	Lump sum	3,575	3,500	6,000	6,800
4 sets cast-iron gates, guides, and stop-plank guides	16,000 lbs.	.085	.08	.07	.23
45 sections stop-planks, complete	Lump sum	990.00	1,000	814.00	1,100
2 gate houses, complete	Lump sum	1,425	3,500	1,952	2,050
Structural steel	14,000 lbs.	.07	.05	.05	.055
Timber in place	25,000 ft., B.M.	39.00	40.00	22.00	62.00
12-in. vitrified pipe	300 lin. ft.	.60	5.00	.70	1.20
Totals		$879,164	$898,892	$962,587	$967,436

*IRRIGATION CANAL.—Belle Fourche, S. Dak.—Bids were opened Oct. 26 by U. S. Reclamation Service for the construction of irrigation canals in connection with the erection of the Belle Fourche Dam, bids for which are given elsewhere in this column. Following bids were received under Schedule No. 3 for the construction of the first division of the South Canal: Orman & Crook, $53,005; Empire Engineering Co., $56,021; Widell-Finley Co., $59,215; Callahan Bros. & Katz, $75,190. For work under Schedule No. 2, calling for construction of the first division of the North Canal, the following bids were received: (1) Orman & Crook, Pueblo, Colo.; (2) Empire Engineering Co., by L. W. Bates, New York; (3) Widell-Finley Co., Mankato, Minn.; (4) Callahan Bros. & Katz, Omaha, Neb.; Raymond F. Walter is Engr.-in-Charge:

Bids Received at Belle Fourche, S. Dak., October 26, 1905, by U. S. Reclamation Service, for the Construction of Irrigation Canals, in Connection with the Erection of the Bell Fourche Dam.

Items.	Quantities.	(1)	(2)	(3)	(4)
Earth excavation for stripping borrow pits	9,000 cu. yds.	$0.15	$0.19	$0.18	$0.20
Unscreened gravel for roadways	100 "	3.85	3.90	1.40	3.00
Screened gravel under concrete	100 "	3.85	4.40	1.50	3.50
Grading, Class A	330,000 "	.165	.175	.18	.25
Class B	10,000 "	.39	.40	.35	.40
Class C	1,000 "	1.05	.50	1.00	1.00
Overhaul	150,000 "	.02	.0125	.0125	.01
Preparing surface for canal embankment	43 acres	8.25	80.00	10.00	10.00
Earth excavation from borrow pits	20,000 "	.165	.15	.18	.25
Concrete masonry, Class B	500 "	7.25	7.90	10.00	15.00
Structural steel	2,000 lbs.	.07	.046	.09	.07
12-in. vitrified pipe	400 lin. ft.	.60	1.00	5.00	1.00
Totals		$71,130	$76,517	$77,635	$103,520

BRICK PAVING.—Sherman, Tex. — Bids were opened Oct. 23 by H. Zimmerman, Cy. Secy., for paving with brick on parts of Houston, Crockett, Travis and Mulberry Sts., for a length of 2,838 ft. and a width of 54 ft., 42 ft. and 40 ft. The foundation is to be of concrete 1:3:6, 4-in. and 5-in. thick; curb is to be of rock, 6-in. x 18-in.; city will do all (using clam shell dredge and dump end scows), (1) 23 cts., (2) 27 cts., (3) 27 cts., (4) 37 cts., (5) 37 cts.; John L. Grim (using hydraulic and dipper dredger), (1) 29¾ cts., (2) 29¾ cts., (3) 29¾ cts., (4) 39½ cts., (5) 44¾ cts.

*DREDGING.—Washington, D. C.—Following bids were opened Oct. 30 at the office of Lieut.-Col. R. L. Hoxie, U. S. Engrs., for dredging in Potomac Channel, near Washington: Coastwise Dredging Co., Norfolk, Va., 18 cts. per cu. yd. for dredging on Virginia side, 20% extra, will use hydraulic dredge with pipe line; Atlantic, Gulf & Pacific Co., New York, 14.6 cts., any other channels 25 cts., will use hydraulic dredge, 120-in. hydraulic machine; Sandford & Brooks Co., Baltimore, 17 cts. for dredging on Virginia side, $200 per day for use of additional machine, will use hydraulic dredge.

*DREDGING. — Portland, Me. — Following bids were opened Oct. 9 at U. S. Engineer's Office for dredging in Cocheco River, N. H.; (1) dredging, 16,718 cu. yds.; (2) rock excavation, 36 cu. yds.: Bay State Dredging Co., Boston, Mass., (1) 65 cts., (2) $25 per cu. yd.; Simon J. Donovan, Boston, Mass., (1) 65 cts., (2) $15 per cu. yd.

*DREDGING.—Washington, D. C.—Following bids were received Oct. 21, by Lt.-Col. R. L. Hoxie, U. S. Engrs., for (1) dredging in Breton Bay, (2) in Occoquan Creek, (3) in Carter's Creek, (4) in Mattaponi River, (5) in Pamunkey River: Ernest L. Minor (using suction dredge), (1) 20 cts., (2) 17 cts., (3) 34 cts., (4) 30 cts., (5) 30 cts.; John L. Miller York, $2.36, $2.49; Bell Engineering & Construction Co., 220 Broadway, New York, $2.05, $2.15.

INDUSTRIAL NOTES.

THE HELWIG MFG. CO., St. Paul, Minn., has recently placed on the market a larger size pneumatic staybolt clipper to cut 1½-in. staybolts and less; in all other respects it has the same desirable features as their smaller pneumatic clipper, which cuts up to 1¼-in. bolts, that is, having small inserted knives readily replaced at little cost, cutting off the bolts of any desired length straight and smooth, ready for riveting.

THE RAIL JOINT CO., 71 Broadway, New York, was organized last week by filing a certificate of incorporation, with a capital stock of $1,500,000, of which $1,000,000 is common stock and $500,000 preferred stock. The officers of the company are: President, Frederick T. Fearey; Vice-Presidents, Lawrence F. Braine and Percy Holbrook; Fernando C. Runyon, Treasurer, and Benjamin Wolhaupter, Secretary. This company will take over the business and properties of the Continuous Rail Joint Co. of America, the Weber Railway Joint Manufacturing Co. and the Independent Railroad Supply Co.

THE KILBOURNE & JACOBS MFG. CO., 645 Railway Exchange Bldg., Chicago, Ill., and Columbus, O., has secured the order from the A., T. & S. Fe R. R. for 325 special cylinder cars, to be delivered in December for their tie-treating plant at Somerville, Tex.—The Michigan Alkali Co. has ordered from the Kilbourne & Jacobs Co. 25 more standard gage 15-ton dump cars for their works at Wyandotte and Alpina, Mich., to be delivered in November.

THE NORTH CAROLINA GRANITE CORPORATION, Mt. Airy, N. C., is now installing a Sullivan Corliss, two stage air compressor, for driving the Sullivan drills and other compressed air appliances used at its quarries. This compressor has a capacity of 2,000 cu. ft. of free air per minute, at 78 revolutions. The air cylinders are connected to a Sullivan Corliss, cross-compound condensing steam end, especially designed and proportioned for this purpose. The air inlet valves are of the Corliss type, operated by independent eccentrics, and the discharge valves on both cylinders are of the automatic poppet type, moving in a direction parallel with the piston rod, with removable seats located in the cylinder heads. A similar machine is installed at the works of the Southern States Portland Cement Co., at Rockmart, Ga.

THE WESTINGHOUSE MACHINE CO., of East Pittsburg, Pa., has secured orders for its Roney mechanical stoker; one from the Jones & Laughlin Steel Co., of Pittsburg, calls for sixteen 114-in. by 24 grate stokers, one from the Lehigh Valley Traction Co., Philadelphia, calls for eight 130-in. × 20 grate stokers, and another from the Pressed Steel Car Co., Pittsburg, covers six 100-in. × 29 grate mechanical stokers. These stokers are of the inclined rocking grate type, with removable fuel plates, and are provided with the necessary actuating mechanism for automatically controlling the motion of the grate-bars and the supply of fuel. They will burn low grade bituminous coal without smoke. In addition to these orders, smaller ones have been received from the Brown Shoe Co., St. Louis; the Water, Light & Gas Co., of Hutchinson, Kan.; Wm. Wanton Dunnell, of Apponaug, R. I.; Penn. State College, State College; Penn. Heat & Power Co., Wilkinsburg; Merchants' Light, Heat & Power Co., Canton, O; Schlitz Brewing Co., Milwaukee; United Shoe Machinery Co., Beverly, Mass.

THE PUBLIC LIGHTING COMMISSION, of the City of Detroit, Mich., which established early in the nineties the first municipal lighting plant in America of high grade and considerable size, has just placed an order with the Westinghouse Machine Co., of East Pittsburg, Pa., for a 2,000-KW. turbine type generating unit, following this order shortly afterwards with a second order for a machine of the same size. In the equipment of its power house on the river front in the center of the business district of Detroit, the Commission has heretofore used vertical engines of the compound marine type. The early generator equipment was of the D. C. series type, the generators being rope driven from the vertical engines. Later the system was gradually replaced by the more modern A. C. series arc system, with A. C. generators of the direct-connected type. The two new units will be installed in the original building, replacing some of the rope-driven machinery. Turbines will be of the standard Westinghouse-Parsons type, operating at a boiler pressure of 160 pounds without superheat and at a normal vacuum of 28 inches. The generators will also be of standard Westinghouse design, of the revolving field type, and with the enclosed generator frame construction.

THE B. F. STURTEVANT CO., of Boston, is furnishing forge equipments for the Carnegie Technical Schools, Pittsburg; J. L. Mott Iron Works, Trenton, N. J.; Chanler Planer Co., Ayer, Mass., and the Pennsylvania R. R., at its Reading shops. The magnitude of the heating problem in large shops and factories and the adaptability of the blower system thereto is evidenced by recent orders taken by the Sturtevant Co. for heating and ventilating equipment for the blacksmith, erecting and carpenter shops of the Wheeling & Lake Erie R. R. Co., Canton, O., containing nearly 1,250,000 cu. ft. of space; the new ordnance shop of the Midvale Steel Co., Nicetown, Pa., containing over 5,000,000 cu. ft. of space; and the silk mill of the Woodhouse, Bopp & Co., Pittsburg, Pa., which contains over 1,000,000 cu. ft. of space. The Erie R. R. is installing roundhouse heating systems furnished by the Sturtevant Co. for its houses at Salamanca, N. Y.; Port Jervis, N. Y.; Meadville, Pa., and Cleveland, O. The Boston Elevated Ry. is to replace its present design of economizers by large machines of special construction manufactured by the Sturtevant Co. Two of these will be installed at the Central Power Station on Albany St., and the third at the East Somerville Power Station. Kullman, Salz & Co., Benicia, Cal., are installing a complete leather drying outfit furnished by the Sturtevant Co..

The various stations and shops of the Philadelphia Rapid Transit Co. save installed a variety of products manufactured by the Sturtevant Co. for the equipment of plants of this class. In the various sub-stations are no less than ten steel plate fans especially designed for cooling transformers. In one of its shops is a complete heating and ventilating system consisting of fan, heater and distributing pipe. In another is a forge shop equipment, together with an exhauster for removing smoke, while a large cupola furnace is supplied with a Sturtevant pressure blower. Among recent sales of mechanical draft equipment made by the Sturtevant Co., are those for the boiler plant of the Baltimore & Ohio R. R. Co., Chillicote, O.; Chesebrough Mfg. Co., Perth Amboy, N. J.; Hillside Coal & Iron Co., Mayfield, Pa.; Castle Realty Co., N. Y.; Diamond Ice Co., Wilmington, Del.; Athens Waterworks, Athens, O.; St. Paul Gas Light Co., St. Paul, Minn.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 153.

SEWERS.

Boise City, Idaho.

Sewer bids will be received at the office of the City Clerk of Boise City, Idaho, up to noon, Monday, November 9, 1905, for building lateral sewers and appurtenances after plans and specifications on file in this office, bids to be opened at 7.30 o'clock in the evening by the Common Council of Boise City, Idaho.

The work includes approximately 26,337 linear feet of eight-inch vitrified pipe sewers, not including Y's; 1,600 linear 10" vitrified pipe sewers, not including Y's; 107 manholes; 1 flush line.

Each bid must be accompanied by certified check for $1,500.00 on one of the banks of Boise City, made payable to the City Clerk, without any conditions attached thereto. Bids must be made in accordance with and be governed by legal notice in local papers.

Forms of proposals and specifications may be obtained on application. Plans will be on file in this office. J. A. BEAL,
17-2t City Clerk.

HARBOR WORK, VALPARAISO, CHILE.

Works amount £2,500,000 ($12,500,000).

On the 2d of April, 1906, bids will be open in Santiago (Chile) for the construction of docks and improvement of the harbor of Valparaiso.

See plans and specifications in Washington, D. C., Chilean Legation, 1228 17th Street; in New York, Consulate General, 135 W. 11th Street.

Plans and specifications may also be seen at the office of Engineering News, New York.
17-39t

DEPARTMENT OF THE INTERIOR, Washington, D. C., October 26, 1905.—Sealed proposals will be received at the office of the U. S. Reclamation Service, 422 Merchants' Exchange Building, San Francisco, Cal., until 2 o'clock p. m., December 29, 1905, for the construction of about 9 miles of main canal, near Klamath Falls, Oregon, with head-works, sluice-gates, bridges and other appurtenances, involving about 60,000 cubic yards of excavation, 3,100 linear feet of concrete-lined tunnel, and 4,000 cubic yards of concrete masonry, exclusive of tunnel lining. Plans, specifications and forms of proposal may be obtained by application to the Chief Engineer of the Reclamation Service, U. S. Geological Survey, Washington, D. C.; the Supervising Engineer, 422 Merchants' Exchange Building, San Francisco, Cal.; or the District Engineer, Klamath Falls, Oregon. E. A. HITCHCOCK Secretary.
18-8t

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock p. m., Nov. 15, 1905, and then opened, for furnishing the materials and labor of all kinds necessary to completely remodel the old oilhouse into a blacksmith shop, Light-House Depot, Tompkinsville, N. Y., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to Lieut.-Col. WM. T. ROSSELL, Corps of Engineers, U. S. A., Engineer.
17-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 23, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 27th day of November, 1905, and then opened, for the construction of a Hospital, Wharf, etc., at Santa Rosa Quarantine Station, Pensacola, Florida, in accordance with drawing and specification, copies of which may be had, at the discretion of the Supervising Architect, by applying at the office or to the Medical Officer in Command, at Pensacola, Florida. JAMES KNOX TAYLOR, Supervising Architect.
17-2t

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Kelly, Harrisburg & Aveling-Porter Rollers

For Sale or Rent for long period.

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Modern machine, with crane engines, just finished work; immediate shipment. Located in Eastern Pennsylvania.

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With crowding engines on crane. Now at work. Shipment ten days. Can be inspected at work under steam. Located near Washington, D. C. Also,

One Marion Model "C" ¾-yd. Dipper

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220 Broadway, New York

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See first column for rates

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1 Manhattan Elevated 22-ton locomotive, just out of Shop.
1 8-wheel Switcher, weight 8[illegible]
1 70-ton Vulcan Steam Shovel, [illegible] model, new Bucyrus Boiler, engine [illegible] new. Bargain.
Subject to inspection, our yard.

Contractors Supply and Equipment Co.
Old Colony Building, Chicago 18-tf

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Built for circular track 39' Diam. Can be readily altered for straight track. Crane in first-class condition and ready for immediate shipment.

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18-2t WILKINSBURG, PA.

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18-2t North Penn Junction, Philadelphia, Pa.

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Industrial Commissioner
Erie Railroad Company

21 Cortlandt Street, New York

SITUATIONS OPEN

WANTED.—First-class estimator for Ornamental iron work, by a prominent iron company, for New York City and vicinity. State salary and experience. Address "Z. A. 18," Engineering News, New York. 18-4t

WANTED.—By a firm in the Pittsburg District, four (4) good detailers and checkers on structural work. Must have at least two to six years' experience; preferably a college or university technical education. In answering, give experience in full, give names of firms previously employed by, state age, if married, least salary per month you would accept, and earliest date you could report for work. Address "X. A. 18," Engineering News, New York. 18-1t

WANTED.—Competent draftsman and computer with experience in detailing railroad structures; permanent position; salary, $115.00 at start. Address "K.," 1636 Monadnock Bldg., Chicago., Ill. 18-1t

A GENERAL MANAGER WANTED

A PRACTICAL, experienced steel bridge manufacturer will be wanted by the Old Dominion Bridge and Construction Company, of Lynchburg, Virginia, to take charge of and manage its affairs, beginning January 1, 1906. The applicant must come well recommended and must take stock to the amount of twenty or twenty-five thousand dollars in the Company. One of the best and most advantageous locations in the South has been secured, and the Company is to be organized with a capital of $300,000.

Apply to W. L. MOORMAN, P. O. Box 102, or the Board of Trade, Lynchburg, Virginia, for further particulars. 18 2-t, 21 1-t.

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